Public Disclosure Authorized

Package Code	Package Name	Justification	Item Category	Item Sub Category
TEQIP-II/MH/MH2G04/1	EXTC_CVLAB_IMAGING KIT_1	This set up provides a thorough introduction to low and intermediate level image processing and understanding concepts and techniques. Vision tutor uses the image processing techniques to illustrate the concepts. A Camera Viewer is a windows based tool for configuring camera setup and for capturing live images.	Goods	Equipment
TEQIP-II/MH/MH2G04/3	EXTC_CVLAB_IT_BIOMETRICS KIT	A Biometric System is essentially a pattern recognition system that establishes a person's identity by comparing the binary code of a uniquely specific Biological or physical characteristic to the binary code of the stored characteristic. Online Biometrics kit is to facilitate Institutes and Research Centres to setup a Biometrics lab to learn, teach and develop biometric applications based on Fingerprint, Signature, IRIS and Face Recognition.	Goods	Equipment

Public Disclosure Authorized

TEQIP-II/MH/MH2G04/4	EXTC_CVLAB_MACHINE VISION KIT	Machine Vision is the application of Computer Vision to industry and manufacturing with image processing & control. Machine Vision system is always a combination of sensors, cameras, controls and software connected to a computer. This Kit along with Machine Vision Experiment Kit facilitates setting up Machine Vision Lab that brings Industrial Machine Vision Experience ready on desktop	Goods	Equipment
TEQIP-II/MH/MH2G04/5	EXTC_CVLAB_Color Camera Kit	This setup is required for Machine vision	Goods	Equipment

		projects to be under taken in TEQIP-2 scheme and is very helpful to carry out PG, consultancy and research work in the field of Machine Vision applications such as Video Surveillance, Object tracking etc.		
TEQIP-II/MH/MH2G04/6	EXTC_CVLAB_Machine Vision SDK	Machine Vision Experiment Kit facilitates setting up Machine Vision Lab that brings Industrial Machine Vision Experience ready on desktop	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/7	EXTC_CVLAB_Lighting Kit	This setup is required for Machine vision projects to be under taken in TEQIP-2 scheme and is very helpful to carry out PG, consultancy and research work in the field of Machine Vision applications such as Video Surveillance, Object tracking etc.	Goods	Equipment
TEQIP-II/MH/MH2G04/8	EXTC_CVLAB_Optics Kit	This setup is required for Machine vision projects to be under taken in TEQIP-2 scheme and is very helpful to carry out PG, consultancy and research work in the field of Machine Vision applications such as	Goods	Equipment

		Video Surveillance, Object tracking etc.		
TEQIP-II/MH/MH2G04/10	EXTC_CVLAB_Thermal Camera	Thermal imaging is an upcoming research in the field of computer vision. This device is very useful in research work using thermal images.	Goods	Equipment
TEQIP-II/MH/MH2G04/13	EXTC_CVLAB_AC	To maintain ambiance in computer lab.	Goods	Equipment
TEQIP-II/MH/MH2G04/18	EXTC_EMBD_Real View MDK	IDE for development of embedded systems on ARM for 8051 and ARM	Goods	Equipment

TEQIP-II/MH/MH2G04/19	EXTC_EMBD_ARM Boards	To develops the applications for Industrial control, Medical systems, Protocol converter, Communications etc To design the embedded application related to DSP and DIP Design and develops the fast processing application using Vector Floating Point coprocessor with core ARM processor	Goods	Equipment
TEQIP-II/MH/MH2G04/20	EXTC_EMBD_8051 microcontroller kits	Practical and project purpose . Improved teaching and learning for PG students	Goods	Equipment
TEQIP-II/MH/MH2G04/21	EXTC_EMBD_Power supply	for experimental purpose	Goods	Equipment
TEQIP-II/MH/MH2G04/23	EXTC_EMBD_Wind River Workbench	Design real time embedded application with Wind River Linux and VxWorks platforms	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/24	EXTC_DSPLAB_DSPLAB_Starterkits	Signal processing, Image/Video processing applications, Multichannel Wireless, Image/Video, Networking and other	Goods	Equipment

		computation expensive applications.		
TEQIP-II/MH/MH2G04/25	EXTC_DSPLAB_audio daughter card	It is used for DSP applications like Audio applications.	Goods	Equipment
TEQIP-II/MH/MH2G04/26	EXTC_DSPLAB_Image/Video daughter card	It is used for many Image/Video Processing applications.	Goods	Equipment
TEQIP-II/MH/MH2G04/28	EXTC_DSPLAB_Programmable System-on-Chip	Used to learn and develop Real time embedded applications.	Goods	Equipment
TEQIP-II/MH/MH2G04/29	EXTC_DSPLAB_BWD tutor	Used to learn and develop Real time embedded applications.	Goods	Books & Learning Resources

TEQIP-II/MH/MH2G04/30	EXTC_DSPLAB_tutor	Used to learn interfacing with ARM7 processor (in LPC 2148) and develop Real time embedded applications.	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/31	EXTC_AAMVLAB_ISE Design Suite	Latest integrated software solution supporting the combined methodologies of logic/connectivity, embedded, and DSP design for programming reconfigurable FPGAs suitable for PG and research students as per the objectives of TEQIP II.	Goods	Books & Learning Resources

TEQIP-II/MH/MH2G04/32	EXTC_AAMVLAB_Spartan	Suitable for Implementation basics of reconfigurable FPGAs and other simple implementations for PG and research students as per the objectives of TEQIP II	Goods	Equipment

TEQIP-II/MH/MH2G04/33	CSE_EXTC_networking	Establishing Center of Excellence for focused applicable research in advance computer Network technology and Computer Vision	Goods	Equipment
TEQIP-II/MH/MH2G04/41	IT_ossbow eKo Kit	Scaling up Postgraduate Education and demand driven Research & Development and Innovation	Goods	Equipment
TEQIP-II/MH/MH2G04/42	IT_IBM	Scaling up Postgraduate Education and demand driven Research & Development and Innovation	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/43	CSE&IT_QualNet Network	Scaling up Postgraduate Education and demand driven Research & Development and Innovation	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/44	IT_timedia Knowledge	Improvement in teaching, training and learning	Goods	Books & Learning Resources

TEQIP-II/MH/MH2G04/45	PROD_ANSYS Multi-physics software	Will be used as FEA and CFD tool for PG and Ph.D. student	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/46	PROD_CAM S/W	Will be used on the CNC milling machine for CAD/CAM integration	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/47	PROD_CATIA V 6.0	CAD use for all students and faculty. Improved teaching and learning for UG and PG students	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/48	PROD_Digital life cycle management	Will be used as total PLM solutions for PG and Ph.D. students	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/51	PROD_Micro machining set up	Research facility. For research activity of PG students and Ph.D. scholars	Goods	Equipment

TEQIP-II/MH/MH2G04/52	PROD_Software for QRE	For quality and reliability analysis studies Improved teaching and learning for UG and PG students	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/53	PROD_Software for reverse engineering	Will be installed on existing Coordinate Measuring Machine. Improved facility in work shop for research	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/64	CWM_Global Positioning System	M-Tech Dissertation work, Sample watershed surveys.	Goods	Equipment

TEQIP-II/MH/MH2G04/65	CWM_GIS software for 10 user lab license	M-Tech course work and Dissertation work. Analysis of watershed data.	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/66	CWM_Digital BOD analyser	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment

TEQIP-II/MH/MH2G04/67	CWM_Portable multi-parameter unit	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment

TEQIP-II/MH/MH2G04/68	CWM_Instruments	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment
TEQIP-II/MH/MH2G04/69	CWM_Conductivity meter	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment

TEQIP-II/MH/MH2G04/70	CWM_COD apparatus	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment

TEQIP-II/MH/MH2G04/71	CWM_Weather Station	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment
TEQIP-II/MH/MH2G04/72	CWM_2	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment
TEQIP-II/MH/MH2G04/73	CWM_3	M-Tech lab work, Dissertation work, field data collection, Improved Teaching & Learning, Overall Institutional Progress.	Goods	Equipment

TEQIP-II/MH/MH2G04/74	CWM_4	Faculty research and consultancy	Goods	Equipment

TEQIP-II/MH/MH2G04/76	CWM_6	M-Tech lab work, Dissertation work.	Goods	Equipment

TEQIP-II/MH/MH2G04/77	CWM-CAD	M-Tech lab work, Dissertation work.	Goods	Books & Learning Resources

TEQIP-II/MH/MH2G04/78	INST_Multivariable Level Control Trainer	Practical for the students and Research and Development	Goods	Equipment

TEQIP-II/MH/MH2G04/79	INST_Multi-Process Control System	Practical for the students and Research and Development	Goods	Equipment

TEQIP-II/MH/MH2G04/81	INST_Universal VLSI Development Boards	Practical for the students and Research and Development	Goods	Equipment	

TEQIP-II/MH/MH2G04/84	INST_SMART CLASS ROOM	For the PG and Research	Goods	Equipment
TEQIP-II/MH/MH2G04/86	INST_Evaluation board	For PG students, Research and Development	Goods	Equipment

TEQIP-II/MH/MH2G04/87	INST_Gas- Liquid Chromatography	For PG students, Research and Development	Goods	Equipment
TEQIP-II/MH/MH2G04/88	INST_Distributed control system set up	For PG students, Research and Development	Goods	Equipment

TEQIP-II/MH/MH2G04/89	INST_BIO MONITOR DATA ACQUISITION and SIGNAL ANALYSIS SYSTEM	For PG students, Research and Development	Goods	Equipment
TEQIP-II/MH/MH2G04/90	INST_DSO	For PG students, Research and Development	Goods	Equipment
TEQIP-II/MH/MH2G04/95	INST_MSP 430 Trainer Kit:	For PG students	Goods	Equipment

TEQIP-II/MH/MH2G04/100	COMP_EXTC_FUR	Establishment of New Laboratory for PG Programme in CSE	Goods	Furniture
TEQIP-II/MH/MH2G04/101	EXTC_CV_lab_FUR	Establishment of New Laboratory for PG Programme in EXTC	Goods	Furniture
TEQIP-II/MH/MH2G04/102	EXTC_Networking	Establishment of New Laboratory for PG Programme in EXTC	Goods	Equipment
TEQIP-II/MH/MH2G04/103	EXTC_FUR_VLSILAB_embedded	Establishment of New Laboratory for PG Programme in EXTC	Goods	Furniture

TEQIP-II/MH/MH2G04/104	IT_FUR	Establishment of New Laboratory for existing PG Programme in IT	Goods	Furniture
TEQIP-II/MH/MH2G04/105	INST_FUR	Establishment of New Laboratory for PG Programme in INSTR Dept.	Goods	Furniture
TEQIP-II/MH/MH2G04/106	OTHER_FUR_lib	Establishment of improved infrastructure in Library Establishment of improved infrastructure in T&P Establishment of improved infrastructure in Examination Section	Goods	Furniture

TEQIP-II/MH/MH2G04/107	CWM_FUR	M-Tech lab work, Dissertation work. Improved Teaching & Learning, Overall Institutional Progress	Goods	Furniture
TEQIP-II/MH/MH2G04/108	CWM_CIVIL	To improve infrastructure facility in the department To improve learning and teaching facility to PG students.	Civil Works	Refurbishment works
TEQIP-II/MH/MH2G04/109	EXTC_CIVIL	To provide good infrastructure to students To improve learning and teaching facility to PG students	Civil Works	Refurbishment works

TEQIP-II/MH/MH2G04/110	PROD_CIVIL	To provide better infrastructure to students To improve learning and teaching facility to PG students.	Civil Works	Refurbishment works
TEQIP-II/MH/MH2G04/112	CIVIL_ differently able	Making Campus physically friendly and socially gender friendly, specially adequate to women and differently able teachers and students	Civil Works	Refurbishment works

TEQIP-II/MH/MH2G04/113	IT_CIVIL	Establishment of New Laboratory for existing PG Programme in IT	Civil Works	Refurbishment works
TEQIP-II/MH/MH2G04/114	INST_CIVIL	For attending seminar, workshops for PG StudentsTo enhance facilities to PG students and research students For doing R&D works for PG and PhD Students	Civil Works	Refurbishment works
TEQIP-II/MH/MH2G04/115	OTHER_CIVIL	To provide infrastructure to office	Civil Works	Refurbishment works
TEQIP-II/MH/MH2G04/117	Institute_Computers	Computing facility in PG labs, Library and Smart Classrooms etc.	Goods	Equipment

TEQIP-II/MH/MH2G04/118	Institute_Laptop	Computing facility in PG labs, Library and Smart Classrooms etc.	Goods	Equipment
TEQIP-II/MH/MH2G04/119	Institute_Printer	Computing facility in PG labs, Library and Smart Classrooms etc.	Goods	Equipment
TEQIP-II/MH/MH2G04/120	Instituite_LCD _ Projector	Computing facility in PG labs, Library and Smart Classrooms etc.	Goods	Equipment
TEQIP-II/MH/MH2G04/121	Institute_SW	To support Computing facility in PG labs	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/123	Institute_UPS	For improved backup to the proposed Laboratory in the Department	Goods	Equipment

TEQIP-II/MH/MH2G04/124	Institute_Camera	Video data collection and outdoor data collection for PG research.	Goods	Equipment
TEQIP-II/MH/MH2G04/125	Institute_Scanner	For document scanning and digitization of documents.	Goods	Equipment
TEQIP-II/MH/MH2G04/136	EXTC_CVLAB_Imaging_Kit_2	This software is required to programme the set up of imagining kit.	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/137	EXTC_books	Improvement in Book facility for PG students	Goods	Books & Learning Resources

TEQIP-II/MH/MH2G04/138	EXTC_JNL	International and National Journals related to PG EXTC course are required PG dissertation work	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/139	CSE-books	Improvement in Book facility for PG students	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/140	CSE-JNLS	International and National Journals related to PG CSE dept course are required PG dissertation work	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/141	IT-Books	Improvement in Book facility for PG students	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/142	IT-JNLS	International and National Journals related to PG IT course are required PG dissertation work	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/143	INSTR_books	Improvement in Book facility for PG students	Goods	Books & Learning Resources

TEQIP-II/MH/MH2G04/144	Instru_JNLS	International and National Journals related to PG Instrumentation course are required PG	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/145	Prod-books	Improvement in Book facility for PG students	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/146	Prod-JNLS	International and National Journals related to PG Production engg course are required PG	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/147	CWM-Books	Improvement in Book facility for PG students	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/148	CWM-JNLS	International and National Journals related to PG CWM course are required PG	Goods	Books & Learning Resources
TEQIP-II/MH/MH2G04/149	EXTC_Cvlab_Hyperspectral camera	Hyperspectral cameras can discriminate	Goods	Equipment

between different objects that cannot be accurately distinguished using traditional RGB (red-green-blue) imaging methods. They can be very useful in a variety of research applications such as crop screening, food selection, skin cancer detection, target detection, etc.

Activity Name	Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method
Improvement in teaching, training and learning facilities	No	No	05/09/2012	250000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	900000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	550000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	120000.00	Shopping

Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	80000.00	Direct Contract
Improvement in teaching, training and learning facilities	No	No	05/09/2012	165000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	95000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	160000.00	Shopping
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	440000.00	Direct Contract

Improvement in teaching, training and learning facilities	No	No	05/09/2012	677750.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	100050.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	70000.00	Shopping
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	950000.00	Direct Contract
Improvement in teaching, training and learning facilities	No	No	05/09/2012	415000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	25000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	80000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	50000.00	Shopping
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	70000.00	Direct Contract

Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	210000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	693000.00	Direct Contract

Improvement in teaching, training and learning facilities	No	No	05/09/2012	408500.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	120000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	500000.00	Shopping
Improvement in teaching, training and learning facilities	Yes	No	15/06/2012	900000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	15/06/2012	700000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	310080.00	Direct Contract

Improvement in teaching, training and learning facilities	Yes	No	10/05/2012	1500000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	300000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	300000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	800000.00	Direct Contract
Improvement in teaching, training and learning facilities	No	No	05/09/2012	2350000.00	NCB

Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	300000.00	Direct Contract
Improvement in teaching, training and learning facilities	No	No	05/09/2012	45000.00	Shopping

Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	450000.00	Direct Contract
Improvement in teaching, training and learning facilities	No	No	05/09/2012	200000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	270000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	48000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	84000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	107000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	155000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	70000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	245000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	1940000.00	NCB

Improvement in teaching, training and learning facilities	No	No	05/09/2012	2070000.00	NCB

Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract

Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	250000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	115000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	100000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	600000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	2000000.00	NCB

Improvement in teaching, training and learning facilities	No	No	05/09/2012	1500000.00	NCB
Improvement in teaching, training and learning facilities	No	No	05/09/2012	100000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	243200.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	120000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	290000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	150000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	399995.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	670000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	350000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	215000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	1070000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	710000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	676000.00	Shopping

Improvement in teaching, training and learning facilities	No	No	05/09/2012	200000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	650000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	200000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	9564200.00	NCB

Improvement in teaching, training and learning facilities	No	No	05/09/2012	600000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	587000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	850000.00	Shopping
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	312000.00	Direct Contract
Improvement in teaching, training and learning facilities	No	No	05/09/2012	1100000.00	NCB

Improvement in teaching, training and learning facilities	No	No	05/09/2012	135000.00	Shopping
Improvement in teaching, training and learning facilities	No	No	05/09/2012	210000.00	Shopping
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	200000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract

Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	600000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	550000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	550000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract

Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	600000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	600000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract
Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	600000.00	Direct Contract
Improvement in teaching, training and learning facilities	No	No	05/09/2012	280000.00	Shopping

Item Name	Item Description	Item Quantity	Item Estimated Cost Per Unit
Hi-resolution Color Camera (1392 x 1040) with accessories	Consisting of - Hi-resolution Color Camera (1392 x 1040) with accessories - Lens and tripod stand Vision Tutor	01	250000.00
BIOMETRICS KIT	Consisting of - Finger Print reader and software - Signature Recognition pad, accessories And Software - IRIS - hardware and software for algorithm & application development. - Face Recognition	02	450000.00

	hardware and software - Camera & Lens Accessories for IRIS capture - Color Camera & Lens Accessories for Face Capture		
MACHINE VISION KIT	MACHINE VISION KIT for Windows , Vision Kit Consisting of - Hi-resolution Monochrome GigE Camera (1024 x 768) with accessories. - Lens (25mm/50mm/Ext tube set) - Copy Stand - Sherlock GUI Machine Vision software with capture, Preprocessing and algorithms for Advanced Machine, Vision application development including Search (pattern Match) with Edge based technique & Machine Vision Experiment Kit (for Laboratory experiments)	01	550000.00

Color Camera Kit	Color Camera Kit - Hi-Resolution Color GigE Camera (1024 x 768) with accessories & Extension cable set.	01	120000.00
Machine Vision SDK	Machine Vision SDK (Development) software - Sapera Essential –SDK software	01	80000.00
Lighting Kit	LED RING LIGHT, LED BACK LIGHT, POWER SUPPLY	01	165000.00

Optics Kit	Lenses (5 Nos), Extension Tube set, Focal Length Extenders	01	95000.00
Thermal Camera	160 x 120 Detector Thermal sensitivity: =0.2°C at 30°C (200 mK) Field of View: 23° x 17° IR-Fusion® Superior resolution to view more essential details Large widescreen full VGA color LCD display Temperature range: -20°C to +250°C (-4°F to +482°F) SmartView® analysis and reporting software (with free upgrades through life of product) Intuitive, three- button menu, simply navigate with the push of a thumb Adjustable focus Withstands dust and water, IP54 rating Withstands a test of 2 meters	01	300000.00
Air Conditioner	AC Five Star 1.5 Tons	04	40000.00
Real View MDK for ARM	Real View MDK for ARM 25 (user lincense)	01	270000.00

Real View MDK for 8051	Real View MDK for 8051 25 (user lincense)	01	170000.00
ARM7-LPC2378 board	ARM7-LPC2378 board with interfacing sets	15	22650.00
ARM7- LPC 2478	ARM7- LPC 2478 with TFT	02	30000.00
ARM9-LPC 3250	ARM9-LPC 3250 and cortex boards with JTAG debugged	02	44000.00
ARM cortex as processor based target board	ARM cortex as processor based target board	02	95000.00
8051 microcontroller kits	8051 microcontroller kits with different interfacing kits and programming software	15	6670.00
Power supply	Dual Track power supply 0- 30V, Min 5A	07	10000.00
Wind River Workbench	Wind River Workbench pack of three users	01	950000.00

Digital Signal Processing Starter kits_1	Digital Signal Processing starter kits for processor TMS3216713 with code comparator studio	05	30000.00
Digital Signal Processing Starter kits_2	Digital Signal Processing starter kits for processor TMS6416 code comparator studio	02	35000.00
Digital Media Developer's Kit for Image/Video	Digital Media Developer's Kit for Image/Video for Embedded Multimedia applications	01	195000.00
4 Channel audio daughter card	4 Channel audio daughter card 25 K for TI DSP staeter kits	01	25000.00
Image/Video daughter card	Image/Video daughter card M56446/13	01	80000.00
Programmable System-on-Chip	Cypress- psoc1,psoc3, psoc5	01	50000.00
Digital Signal Processing (BWD) tutor	Digital Signal Processing (BWD) tutor 10 user liscence: Bloom with DSP, in short BWD, is a training product that is designed to provide user with a fundamental grounding in theories and algorithms behind Digital Signal Processing. BWD is designed to lead the user from basic DSP concepts to target implementation	10	7000.00

	techniques in a logical and coherent fashion.		
ucos II tutor set	Micro-Controller Operating Systems Version 2. It is a priority-based pre-emptive real-time multitasking operating system kernel for microprocessors: ucos II tutor set 5	01	60000.00
Microcontroller LPC 2148 tutor	Microcontroller LPC 2148 tutor kit. MCU: LPC2148 16/32 bit ARM7TDMI-S™ with 512K Bytes Program Flash, 42K Bytes RAM, USB 2.0, RTC, 10 bit ADC 2.44 uS, 2x UARTs, 2x I2C, SPI, 2x 32bit TIMERS, 6x PWM, 8x CCR, 1x DAC, WDT, 5V tolerant I/O, up to 60MHz operation	05	30000.00
Xilinx ISE System Edition 13.2	Xilinx ISE System Edition 13.2 (25 user license)	01	112000.00
Xilinx ML505 Vertex5 Development Board	Xilinx ML505 Vertex5 Development Board General purpose FPGA and RocketIO™ GTP development board •with general purpose	01	147000.00

	evaluation and development platform •with on-board memory and industry standard connectivity interfaces		
Xilinx ML506 Vertex5 Development Board	Xilinx ML506 Vertex5 Development Board DSP general purpose evaluation and development platform. Ability to create DSP based and high speed serial designs utilizing the Virtex-5 FPGA DSP48E slices and RocketIO™ GTP transceivers.	01	147000.00
Xilinx ML507 Vertex5 Development Board	Xilinx ML507 Vertex5 Development Board General purpose FPGA, RocketIO™ GTX, and Embedded System development platform Application: Audio/Video Interface	01	137000.00
Xilinx Spartan 3A video starter kit	Xilinx Spartan 3A video starter kit	01	150000.00
Digilent Spartan 3E starter kit	Digilent Spartan 3E starter kit	05	15700.00
Spartan 3A DSP 3400 A Development platform	Spartan 3A DSP 3400 A Development platform, FMC video daughter card, DVI Input, Single channel In and out composite, S-Video In and out, Two independent camera interface, CMOS image sensor camera, 742X480X 60 Hz RGB progressive scan, Micron MT9VO2Z CMOS colour	01	330000.00

	image sensor		
Networking Accessories	WLAN Access points Rucus or Equivalent Single radios with 802.11a/n (5 GHz) and 802.11b/g/n (2.4 GHz) concurrent operation, MIMO: (# Radio Transmit and # Radio Receive chains) Atleast 2X2 MIMO Antenna 20 MHz and 40 MHz channels,	06	20000.00
Crossbow eKo Kit	Crossbow eKo Kit for wireless sensor laboratory along with the sensors and other relevant accessories	01	500000.00
IBM SPSS Data Modeler	IBM SPSS Data Modeler (2 Users licence)	02	300000.00
IBM rational rose UML software	IBM rational rose UML software	01	300000.00
QualNet Network Simulator	QualNet Network Simulator (1 user licence)	02	350000.00

Multimedia Knowledge Resources on Mobile Communication	Multimedia Knowledge Resources on Mobile Communication from Aditi Media Serivces (16 modules with 3 licences each)	48	6460.00
ANSYS Multi-physics software	ANSYS Multi-physics software V 14.0 or latest: ANSYS Academic research bundle, no node limit, full capability solver, includes all modules including CFD (CFX, FLUENT)	10	150000.00
CAM software - Software	CAM software - Software for CNC machine: DELCAM / VERICUT latest version	01	300000.00
CATIA V 6.0 software	CATIA V 6.0 software (UDK+UMC)	10	30000.00
Digital life cycle management	Digital life cycle management – Teamcenter/wind chill PLM software with ORACLE, NX 8.0, NXCAM	20	40000.00

Micro machining set up	CNC micromachining unit suitable for micro EDM milling and EDM drilling along with a compatible desktop computer, control unit and standard set of accessories.	01	2350000.00
Software for QRE APPL	Proficient4, InfinityQS ProFicient: Software for QRE applications: for on line and offline QC,	01	150000.00
Weibull++	Reliability analysis and cost estimation Weibull++ by ReliaSoft Corporation	01	150000.00
GoldSim	GoldSim Technology, Software for Reliablity Engg.	01	200000.00
Metro-soft Software for reverse engineering	Metro-soft software for the 3D CMM with reverse engineering module (BAF)	01	300000.00
Global Positioning System	Global Positioning System GPS Hand held equipment, sunlight readable display 65K colour TFT, Battery operated, USB interface, Built in 3 axis tilt compensated compass,	01	45000.00

	barometric altimeter, 1 GB memory, capability to download satellite imagery and integrate them with the maps. High sensitivity and WAAS enabled GPS receiver, capacity to store key information about the location, capacity to accept data cards, Automatic routing complete with Dust proof and Waterproof case.		
GIS software for 10 user lab license	GIS software for 10 user lab license with the capacity of direct access to satellite imagery, supports true 3D viewing of loaded elevation and 3D vector data including draping of any loaded imagery crop, reproject and merge any combination of raster data and elevation data, import and export files, digitize new vector features, facility to track compatible GDS device, image rectification, contour generation, automatic triangulation and gridding of 3D points, comparing surfaces, Google map support, advanced measurement capabilities, advanced drawing capabilities, 3D path profiling	01	450000.00
Digital BOD analyser	Digital BOD analyser,	01	200000.00

	BOD Measurement Package with Dissolved Oxygen (LDO) Probe, With Bottles, Designed for water quality experts, The durable portable meter and optional rugged probes designed to withstand portable and field use. Simple to use without manuals, BOD smart probe that stores all calibrations in the probe, Waterproof meter, meter stand, and easy to read display Meter package includes Portable Meter, BOD probe with 1.8 m cable, meter stand, Disposable BOD Bottles, Acrylic Stoppers (25) and BOD Bottle caps (1 packages of 6), 4 AA batteries, protective meter glove, power adapter, USB/DC power adapter for data transfer, quick-start guide, user manual, and documentation CD Data export: Download via USB connection to PC or flash memory device. Parameter: pH, mV, ISE, ORP, Dissolved Oxygen, Conductivity, TDS, Salinity, Temperature		
Portable multi-parameter unit	Portable multi-parameter unit Microprocessor based portable equipment with the facility of measuring pH, mV, ISE, Conductivity, Dissolved	01	270000.00

	oxygen, temperature simultaneously using combined pH electrode /conductivity/oxyge n sensor with inbuilt temperature sensor and immersible stirrer in the field. High resolution, high precision menu driven operation. Backlit arrangement for poor light condition, datalogger memory for 2000 data sets and real time clock support GLP requirements. Supplied with rechargeable battery for up to 1000 hours of continuous measurements and appropriate line adopter. Mains power supply. Supplied with Dust shock and water proof case. Necessary cable and calibration and maintenance arrangement.		
Digital Titrator	Digital Titrator Portable Digital Titrator with interchangeable cartridges, Multiple titration methods available for Hardness, Alkalinity, Chloride with necessary reagents in a plastic case, manual, and five straight delivery tubes, Accuracy: ±1%.	01	48000.00
Conductivity meter	Conductivity meter Bench top Conductivity	01	84000.00

	Meter: Conductivity Kit With Conductivity Cell For General Purpose Applications Conductivity Lab Kit, an all-in- one system with guided menu navigation designed to be used in a wide variety of applications AC and USB Operation, Backlight: Included Inputs: E.C. cell, Pt1000 Parameter: Conductivity, Salinity, Resistivity, Temperature		
COD apparatus	COD apparatus COD- Digital Reactor Block – 230V With 15 vial cell Pre- programmes for all for COD, Unicell, TNT tests for digestion. Two separately controlled heating blocks (for one of the models) for simultaneous digestion of different/identical temperatures and different identical time settings * Adjustable Temperature setting 35°C to 165°C in 1° C steps. * Adjustable Time settings [1 to 480minutes (8hours)] * Up to 3 user enter digestion/reaction storable Application Reagent Sets, Bulk COD LR and HR (300tests) Empty COD Vials with caps complete	01	107000.00

Weather Station	Weather Station Transmission – Cabled Sensors – Wind Speed Wind Direction Temperature Humidity Rainfall Data – Every 2.5 Seconds Transmitter – Solar Power Battery Data Logger – To Log and Store Data	01	155000.00
Digital Infitrometer	Digital Infitrometer Diameter of Tube: 3.1 cm Volume of Water Required to Operate:135 ml Sintered Stainless Steel Disc: 4.5 cm diameter, 3 mm thick Length of Water Reservoir:21.2 cm Length of Suction Regulation Tube:10.2 cm Length of Mariotte Tube:28 cm Suction range: 0.5 to 7 cm of suction	01	70000.00
Prismatic Compass	Prismatic Compass (100mm) made of brass or gun metal	10	3500.00

	Circles: Aluminum graduated every 30 minutes Reading- Agate stone bearing with help of prism glasses & reflecting mirror packed in fiber case with sighting vane and rigid stand and ball socket arrangement with aluminum stand Conforming to BIS : 1957-1961.		
Vernier Theodolite	Theodolite 20 Sec Erect Image 24X Coated optic, Superior Quality Suitable for measuring Horizontal, Vertical Angles With Optical Plumet 2.5X Focusing Range 0.5m Erect Image 24/30X coated optic Shortest/longest measuring distance1.5m/300mt Graduated circle 360º Vernier reading 20" Objective aperture 40mm Complete in box with standard accessories & tripod stand of aluminium.	05	25000.00
Dumpy level	Dumpy level •TELESCOPE Length : 300 mm Magnification : 20X Effective Aperture : 34 mm Field of View : 1 degree 5 '	05	15000.00

	Shortest Focussing Distance : 1.5 M Stadia Ratio : 1:100 •CIRCLE Diameter : 90 mm Graduation : 1 div = 1 degree Bubble Sensitivity : 1/2 minute •ACCESSORIES Aluminum Telescopic Tripod Plactic Box Tools kit: Screw Driver, Plub bob, Brush, Diaphragm extractor		
Planimeter	Planimeter Planimeter with all accessories in box	04	2500.00
Triaxial Test Apparatus	Triaxial Test Apparatus Digital Load frame 50 kN capacity, Triaxial cell complete 38 – 100 mm dia., constant pressure system, triaxial electronic system (Digital indicator, load cell, Pore pressure transducer, Displacement transducer), Data acquisition system, compressor.	01	420000.00
Compression Testing Machine	Compression Testing Machine (Digital) 3000 kN Capacity 3000 kN capacity , L.C. 0.1 kN up to 999 kN & 1 kN	01	620000.00

	from 1000 kN to 3000 kN, Maximum clearance between platens 400 mm, Maximum distance between side plates 400 mm, Platen size 320 mm square, Piston Dia. 272.2 mm, Piston stroke 50 mm, Specimen size 150 to 300 mm cube & 300 mm dia. × 300 mm high cylinder		
Rebound Hammer	Rebound Hammer Hammer for compressive strength of 10 to 70 N/mm2, Impact energy 2.2 Nm, including all accessories such as cables, charger plug, carrying strap, grinding stone, manual and charts, carrying case etc.	01	365000.00
Ultrasonic Concrete Tester	Ultrasonic Concrete Tester Display unit, 2 transducers (54 Khz), @ BNC cables 1.5 m, Couplant, calibration rod, 25 µs, USB charger with USB cable, 4 × AA (LR6) batteries, data carrier with software, documentation and carrysing case.	01	535000.00
Ultrasonic flow meter	Ultrasonic flow meter	01	250000.00
Pressure Monitoring & Control Products	Pressure Monitoring & Control Products	01	250000.00
Computerized pump testing Rig	Computerized pump testing Rig	01	500000.00
Bernoullis Theorem Apparatus	Bernoullis Theorem Apparatus (Closed loop set up)	01	75000.00

	Bernoulli's Apparatus consists essentially of a two dimensional rectangular section convergent divergent duct designed to fit between Constant Head Inlet Tank and Variable Head Outlet Tank.		
Flow Through Orifice & Mouthpiece	Flow Through Orifice & Mouthpiece (Closed loop set up) 1. Set of Orifice : 10mm & 15mm (Acrylic) 2. Set of Mouth piece : Dia. 10mm, L/D 2.5 & 4 (Brass) 3. Sump Tank : Capacity 150 ltrs. Material M.S.Sheet with F.R.P. lining from inside for prevention of rusting. 4. Collecting Tank : Capacity 100 ltrs. Stand for mounting the collecting tank. 5. Measuring Tank : Capacity 40 ltrs Material M.S.Sheet with F.R.P. Piezometric Glass Tube for flow measurement. 6. Monoblock Pump : Capacity 0.5 HP, Single Phase, 230 V. with required bye-pass valve and suction piping. 7. Flexible Hose Pipe for connecting the basic unit to the Sump Tank. 8. Control valve for controlling the flow rate. 9. Stop clock. 10.Scale X-Y co-ordinate measuring arrangement. 11. A base frame made up of sturdy M.S. Angles.	01	100000.00

	12.Weights : 80 Kg (Approximately) 13.Dimension : 4 x .4 x 3 m.		
Flow through Notches	Flow through Notches (Closed loop set up) M.S. Notch tank capacity of 40 Liters. A set of different sharp edged notches Rectangular notch 100mmPipe system with 2 G.I. Pipe lines of size 15mm and Triangular notch 60mm Hook gauge with provision for mounting. M.S. measuring and collecting tank of size 40Lts. Capacity Space needed: 3 x .3 x 3 Ms	01	125000.00
Losses Due to Pipe Fittings, Sudden Enlargement & Contraction	Losses Due to Pipe Fittings, Sudden Enlargement & Contraction (Closed loop set up) Pipe lines: B class GI pipe of 15 & 20 mm with pressure tapping at 2 M distance, Pressure distribution manifold, flow control gate valves, & 1 M length manometer. Water recalculating pump: ½ HP mono block self priming pump Valves: Gun metal Gate valve ISI brand for flow control , Gunmetal imported ball valve for tank Drain , Gunmetal foot valve ISI brand. Tanks: Sump Tank Size: 2000 X 500 X 300 mm.	01	100000.00

	Collecting tank size: 500X500X600mm		
Discharge Through Venturimeter & Orificemeter	Discharge Through Venturimeter & Orificemeter (Combined unit of venturimeter 40mm and orifice meter 25 mm) (Closed loop set up) Venturimeter of size 25mm made of gunmetal inlet dia fitted on a pipeline and control valve. Differential manometer 1 m length for the measurement of differential head, supplied with mercury Fiber Glass lined M.S measuring tank to measure the discharge water from the unit provided with a gauge glass scale arrangement and a drain valve Fiberglass lined M.S sump of to store sufficient water for independent circulation through the unit for experimentation and arranged with in the floor space of the main unit. Supply of pump set of 0.5 HP 25mm size to pump water from the sump to store the unit through proper piping system with a gate valve to control the rate of flow, and connected with a DP switch. Space needed : 4 x .3 x 3 M	01	120000.00
Metacentric Height Apparatus	Metacentric Height Apparatus (Closed loop set up) Copper Sheet Vessel 350x350mm is provided with device for loading on	01	50000.00

	different points corresponding to the keel. The bridge is graduated in degree is provided for measuring the angle of inclination the unit is complete with clamping screw and two sets of brass slotted weights of 10gms. Sump tank for the above apparatus a 40 Liter capacity steel tank is provided with drain cock and is transparent window marked in cms. Dimension: 40 x 40 cm sump tank.		
Darcy's Law Apparatus	Darcy's Law Apparatus (Closed loop set up), Perplex Column of size 69 x 100cm sump tank of 100 Liters capacity Approximate of M.S Discharge tank of 40 Liters capacity approximate of M.S Centrifugal Pump 25 x 25 mm with 0.5 HP motor Supporting Stand an Multi tube manometer.	01	100000.00
Computerized water meter testing unit	Computerized water meter testing unit	01	350000.00
Portable Water Current meter	Portable Water Current meter Measurement of velocity in flumes of size 30cm by 60 cm, propeller bar/cup and cone type, velocity range-0.05 to 4.0 m/s.	01	50000.00

Water CAD Software	Water CAD Software Sewer CAD Storm CAD Latest version with Commercial liscence	01	500000.00
Multivariable Level Control Trainer	Multivariable Level Control Trainer Multiprocessor Trainer Technical Specifications Product: Multi variable level control trainer Product Code: 327A Type of Control: SCADA Control Unit: ADAN-4022T serial based dual loop PID controller, Analog input 4, analog output 2, digital input 2, digital output 2, with RS485 communications. Communication: USB port using RS485 – USB converter Level Transmitter: Type electronic, two wire, Range 0- 250 mm , output 4-20 mA (04 Nos) Rotameter : 16-160 LPH (04 Nos) Dosing pump : Positive displacement closing pump with adjustable stroke (02 Nos) VFD : VS mini inverter, programmable, input single phase 200VAC, 1.1A, output AC3 phase 0-230V, 0.3 kVA Process tank: Transparent, acrylic, with 0-100% graduated scale (04 Nos) Supply tank: SS304 Overall dimensions:	01	300000.00

	600Wx1000Dx1800H mm SCADA software package		
Multi-Process Control System	Multi-Process Control System Complex process in the industries. Specifications Control Unit: ADAM – 4022T. Serial based dual loop PID controller, analog input 4, analog output 2, digital input 2, digital output 2, with RS485 communications. Communications: USB port using RS485 USB converter. Differential pressure transmitter : Type capacitance, 2 wire, range0-200 ml, output 4-220 m/A sqrt (2 Nos) Level Transmitter: Type electronic. Two wire, range 0-250 mm, output 4-20 mA I/P Converter: Input 4-20mA, output 3-50 psig. Control Valve : Type: Pneumatic: Size: 1/4", input: 3-15 psig, Air to close, characteristic: Linear Rotameter : 10-100 LPH(3 Nos) Pump : Fractional horse power, type submersible Process tank: Transparent, acrylic, with 0-100% graduated scale. Supply Tank: SS304 Flow measurement : Orifice meter (03 Nos) Air filter regulator : Range	01	300000.00

	0.2.5 kg/cm2 Pressure Gauge : Range 0.2.5kg/ cm2 (01 No), range 0		
Universal VLSI Development Boards (05 Numbers)	Universal VLSI Development Boards (05 Numbers) Universal VLSI economy Board. Technical Specifications, Universal platforms for A/XILINK FPGA CPLD devices, Modules available in PLCC84 , TQ144 AND VQ 100 packages, Support for 5V, 3.3V and 2.5 V devices (on board regulators),Power supply jack with reverse polarity protection., On board power switch., On board 4 MHz clock with on board clock divider (4 MHz to 244Hz),Manual clocking facility, External clock input facility.,All IO's accessible externally through 10 and 26 pin connections., Auto family defect facility with LED indication (Xilinx or a),Auto device detect facility (FPGA, CPLD OR SPROM with LED indication),On board a Byte blaster and Xilinx JTAG circuitry) ,On board configuration switch for FPGA's.,FPGA daughter board with sprom interface facility.	05	20000.00

STK-2148-Lite	STK-2148-Lite Basic Trainer Kit for learning ARM7 architecture using LPC2148 • Speed: 12 MHz default, up to 60 MHz with on chip PLL,• Flash - 512 KB, SRAM - 40KB,• 128*64 Monochrome Graphics LCD,included on- board,• USB device interface with USB,connect LED,• Serial Ports:,o 2 UARTS: UART0 and UART1.,o UART0: 3 wire RS-232.,o UART1: 3 wire RS-232.• ADC: 2 Channels on Connector forexternal analog input. Facility to,give POT and LM35 input.,• Temperature sensor interface with on-board LM35,• DAC: One 10 bit DAC output, available as Test Point,• 8 LEDs for digital output and 8,Push Button Switches to give Digital Input • 16*2 Alphanumeric LCD,• 4*4 Matrix Keyboard• Buzzer and 2 Relays with LED indication. The relay contacts NC, NO and Common available on connectors.• Stepper Motor interface with onboard Stepper Motor	08	18750.00
LED Television set 46 INCH	LED Television set 46 INCH	01	100000.00
PA system	PA system	01	15000.00
Evaluation board using P89V51RD2	Evaluation board using	05	20000.00

along with interfacing cards	P89V51RD2 along with interfacing cards - ADC0809 along with temperature sensor LM35 - DAC0808 with all power supplies - Stepper motor interface card with stepper motor. - Digital I/O simulation board with 8 LEDs and 8 switches. - Text LCD module, 16 char X 2 rows LCD with 4x4 key matrix -4 x7segment LED with 4x4 key matrix - Interfacing card for SPI based RTC, I2C based ADC, DAC, RTC and EEPROM. Onboard POT and LM35 Temperature sensor to give analog input. - Traffic Light Simulation Card -DC Motor Interface card		
Gas- Liquid Chromatography	Gas- Liquid Chromatography Provided by:- Shimadzu Column: - packed column type Detectors Flame ionization detector; FID-2010 Plus Injectors:- Split/split less injection unit; SPL-2010 Plus	01	600000.00
Distributed control system set up	Distributed control system set up which will comprise of device, control and supervisory levels and also system should also be integrated to Allen Bradley, Siemens' or ABB PLCs	01	2000000.00

	available in our LAB		
BIO MONITOR DATA ACQUISITION and SIGNAL ANALYSIS SYSTEM	BIO MONITOR DATA ACQUISITION and SIGNAL ANALYSIS SYSTEM System Components •1 Ethernet-ready data acquisition unit •1 universal interface module •1 software for Windows Vista with electronic manual •1 network interface card •1 Ethernet crossover cable 1 12 V power transformer with cord •Analog I/O ECG System, Skin Resistance Transducer Electrocardiogram Amplifier Multi-lead ECG Cable EEG, Pulse Oximeter Electroencephalogram Amplifier EEG Electrode Cap System Biopotential amplifiers to Touch proof inputs	01	1500000.00
Digital Storage Oscilloscope	Digital Storage Oscilloscope 4 channel, 100 MHz, USB interface, 10 year limited lifetime warranty	02	50000.00
Trainer Kit using microcontroller MSP	Trainer Kit using MSP 430	05	60000.00

	430 ULTRALITE-430, along with interfacing and stepper Motor control cards		
Rolling chair Model RC 43	Rolling chair Model RC 43	50	1800.00
Rolling chair Model RC 46	Rolling chair Model RC 46	46	1700.00
Rolling chairs	CV Lab: Rolling chairs with adjustable height and hand rest	25	3000.00
Computer Tables & revolving chairs	Computer Vision Lab: Furniture for Computer Vision Lab. 25 seating arrangement Computer Tables (90 running feet), Shelf, Rack etc.	01	300000.00
Electrical & Networking 1	Electrical & Networking CVLAB	01	40000.00
Electrical & Networking 2	Electrical & Networking AMSVLSI LAB,	01	40000.00
Electrical & Networking 3	Electrical & Networking Embedded Lab	01	40000.00
Computer table 130 running feet	Advanced Analog & Mixed Signal Laboratory : Computer table 32 running feet @ 2200 per running feet Advanced Embedded System Laboratory: Computer table 23 running feet @ 2200 per running feet	01	290000.00

	DSP Laboratory : Computer table 75 running feet @ 2200 per running feet		
Chairs	Furniture for M.Tech IT Lab Chairs	20	3500.00
Computer Tables	Computer Tables	20	4000.00
Patient Table	Patient Table	01	15000.00
Cupboards	Cupboards	10	15000.00
Chair	Chair for the lab	25	1000.00
Office Table	Office Table	02	25000.00
Executive Chair	Executive Chair	02	5000.00
Sofa	Sofa	01	25000.00
Experimental Tables	Experimental Tables	15	8333.00
LIBRARY BOOK RACK MAIN UNIT	LIBRARY KD BOOK RACKS (074Metallic Silver Grey) DOUBLE SIDED STEEL LIBRARY BOOK RACK MAIN UNIT Size 1850Hx900Wx600D	09	17300.00
LIBRARY BOOK RACK ADD ON UNIT	LIBRARY KD BOOK RACKS (074Metallic Silver Grey) DOUBLE SIDED STEEL LIBRARY BOOK RACK ADD ON UNIT	28	16100.00

	Size1850Hx900Wx600D		
STAND FOR LIBRARY KD BOOK RACKS	STAND FOR LIBRARY KD BOOK RACKS DOUBLE SIDED STEEL UNIT Size 125HX900WX600D	40	1587.50
Cupboards	Cupboards 0.6m(w)x0.75m (depth)x0.6m(H)	10	10000.00
Furniture for Environmental lab	Running Table for Environmental lab Laboratory furniture (10.6m length x depth 0.75m, 0.75m height)	01	250000.00
Seminar Hall Refurbishment in Civil-WM seminar hall	Seminar Hall Refurbishment in Civil-WM seminar hall	01	40000.00
Fluid Mechanics Lab Refurbishment in FM laboratory	Fluid Mechanics Lab Refurbishment in FM laboratory	01	100000.00
Surveying Lab	Surveying Lab Partitions in surveying for equipments	01	75000.00
Comp Vision Lab	Comp Vision Lab a)False Ceiling b)Partitioning of lab c)Window work	01	375000.00
Analog and Mixed Signal Lab	Analog and Mixed Signal Lab a)Door and door frame	01	320000.00

	b)HOD chamber windows c)Embedded system (Partition) d) DSP Lab (Partition)		
Refurbishment of Flooring of proposed CV Lab	Refurbishment of Flooring of proposed CV Lab	01	375000.00
False ceiling	(i)False ceiling of TOM and Metrological Lab (ii) False ceiling of CAM lab (iii) False ceiling of Heat Transfer lab (iv) false ceiling of wielding shop	01	260000.00
Seminar room	Seminar room refurbishment	01	450000.00
Ramp for differently able teachers and students 1	Ramp for differently able teachers and students in Administrative building	01	150000.00
Ramp for differently able teachers and students 2	Ramp for differently able teachers and students in Electronics Dept	01	125000.00
Ramp for differently able teachers and students 3	Ramp for differently able teachers and students in Instrumentation Engg Dept	01	150000.00
Ramp for differently able teachers and students 4	Ramp for differently able teachers and students in Library	01	126000.00
Ramp for differently able teachers and students 5	Ramp for differently able teachers and students in	01	125000.00

	Civil Engg dept		
Refurbishment work in the Laboratory, and electrification in the classrooms	Refurbishment work in the Laboratory, and electrification in the classrooms	01	200000.00
Refurbishment of PG R&D facility	1. Refurbishment of Seminar Hall for PG Students 2. Refurbishment of PG Computer lab 3. Refurbishment of PG R&D Lab	01	500000.00
Refurbishment of Biomedical & Signal Processing Research centre.	Refurbishment of Biomedical & Signal Processing Research centre.	01	150000.00
Refurbishment of Library Seating arrangements	Refurbishment of Library Seating arrangements	01	200000.00
Desktop Computers	Intel i5 Processor, HDD 500GB, 4GB DDR3 RAM, WLAN Card,	162	43000.00
Work Station	Processor Xeon QuadCore , RAM 4GB, 3D NVDIA Graphics card, 1TB HDD	30	74940.00
Hi-performance PC	Processor i7, Memory: 16GB, 2TB HDD	02	175000.00

LAPTOP1	i7, intel® HD 3000 graphics,4GB4 Dual Channel DDR3 SDRAM at 1333MHz, 256 flash hdd	03	100000.00
LAPTOP 2	i5, 256 flash hdd, 4GB RAM	06	50000.00
Laser Printer	Multifunction (Print Copy Scan) Laser printer, manual duplex	06	12000.00
Multifunction Laser Printer	Multifunction (Print Copy Scan FAX) Laser printer, Automatic duplex	05	25000.00
Monochrome Laser Printer	Auto Duplex, 1200x1200	04	35000.00
Digital Copier	Paper size A3, speed 60 - 120 sheets per minute	01	250000.00
LCD Projector 1	LCD Projector, 4000 Lumens	09	50000.00
LCD Projector 2	0.8 - inch (1024 x 768) LCD with MLA (Aspect Ratio 4:3)	04	100000.00
Windows 7 operating system	os for PCs with Visual studio bundle and MS office 2010	20	10000.00
Windows 7	Windows 7 operating system	08	9000.00
Anti-Virus	Anti-Virus licence for 2 years	04	10000.00
UPS 5KVA	UPS 5KVA, 2 Hr Backup	05	160000.00
UPS 10KVA	UPS 10KVA, 1 Hr Backup	02	150000.00

HandyCam	HD Video Codec, MPEG4- AVC/H.264, Video Codec, MPEG2-PS Media Storage Type 220GB Hard Disk Drive HYBRIDMovie Recording on Memory Stick™ and SD/SDHC Memory Card Image Sensor 1/4 "Exmor R" CMOS Sensor Lens / Filter DiameterSony G Lens / 30mm Optical / Digital Zoom 12x / 160x Audio Format Dolby Digital 5.1ch, Dolby Digital 5.1Creator / Dolby Digital 2ch Stereo, Dolby DigitalStereo Creator Zoom MicYes Maximum Still Image Resolution (Photo Mode) 7.1 Mega Pixels (3072 x 2304, 4:3)	02	60000.00
Digital Camera	10Mega Pixel	01	15000.00
Document Scanner	24" technical document scanner	01	150000.00
Flat Bed Scanner	4800dpi	01	10000.00
Document Scanner Scan resolution	Automatic document feeder capacity: Standard, 50 sheets	01	50000.00
Aphelion Developer (GUI and SDK Imaging	Aphelion Developer ia an image processing and image analysis software.	01	200000.00

EXTC-Books	Books for PG students of EXTC on subjects such as DSP, Computer Vision, DIP etc	01	500000.00
EXTC-JNLS	International and National Journals related to PG EXTC course	01	600000.00
CSE-Books	Books for PG students of CSE on subjects such as Computer networking, Security, DSP, Computer Vision, DIP etc	01	500000.00
CSE-Journals	International and National Journals related to PG CSE course	01	550000.00
IT-Books	Books for PG students of IT Dept on various IT subjects.	01	500000.00
IT-JNLS	International and National Journals related to PG IT course	01	550000.00

Insrt-Books	Books for PG students of Instrumentation Engg dept	01	500000.00
Instru_JNLS	International and National Journals related to PG Instrumentation course	01	600000.00
Prod-books	Books for PG students of production engineering dept on subjects various PG subjects	01	500000.00
Prod JNLS	International and National Journals related to PGcourses in Production engg dept	01	600000.00
CWM Books	Books for PG students of Civil Water Management Engg Dept.	01	500000.00
CWM-JNLS	International and National Journals related to PG Civil Water Management course	01	600000.00

Hyperspectral camera	Spectral Range 0.4–1.0 µm Digitization 12 bit Necessary accessories such as cables, power supply and frame grabber. An application Programming Interface in Visual C++ for application specific software development.	01	280000.00

Package Code	Package Name	Justification	Item Category	Item Sub Category	Activity Name	Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method	Item Name	Item Description	Item Quantity	Item Estimated Cost Per Unit
TEQIP-II/MH/MH2G04/1	EXTC_CVLAB_IMAGING KIT_1	This set up provides a thorough introduction to low and intermediate level image processing and understanding concepts and techniques. Vision tutor uses the image processing techniques to illustrate the concepts. A Camera Viewer is a windows based tool for configuring camera setup and for capturing live images.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	250000.00	Shopping	Hi-resolution Color Camera (1392 x 1040) with accessories	Consisting of - Hi-resolution Color Camera (1392 x 1040) with accessories - Lens and tripod stand Vision Tutor	01	250000.00
TEQIP-II/MH/MH2G04/3	EXTC_CVLAB_IT_BIOMETRICS KIT	A Biometric System is essentially a pattern recognition system that establishes a person's identity by comparing the binary code of a uniquely specific Biological or physical characteristic to the binary code of the stored characteristic. Online Biometrics kit is to facilitate Institutes and Research Centres to setup a Biometrics lab to learn, teach and develop biometric applications based on Fingerprint, Signature, IRIS and Face Recognition.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	900000.00	Shopping	BIOMETRICS KIT	Consisting of - Finger Print reader and software - Signature Recognition pad, accessories And Software - IRIS - hardware and software for algorithm & application development. - Face Recognition	02	450000.00
												hardware and software - Camera & Lens Accessories for IRIS capture - Color Camera & Lens Accessories for Face Capture		
TEQIP-II/MH/MH2G04/4	EXTC_CVLAB_MACHINE VISION KIT	Machine Vision is the application of Computer Vision to industry and manufacturing with image processing & control. Machine Vision system is always a combination of sensors, cameras, controls and software connected to a computer. This Kit along with Machine Vision Experiment Kit facilitates setting up Machine Vision Lab that brings Industrial Machine Vision Experience ready on desktop	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	550000.00	Shopping	MACHINE VISION KIT	MACHINE VISION KIT for Windows , Vision Kit Consisting of - Hi-resolution Monochrome GigE Camera (1024 x 768) with accessories. - Lens (25mm/50mm/Ext tube set) - Copy Stand - Sherlock GUI Machine Vision software with capture, Preprocessing and algorithms for Advanced Machine, Vision application development including Search (pattern Match) with Edge based technique & Machine Vision Experiment Kit (for Laboratory experiments)	01	550000.00
TEQIP-II/MH/MH2G04/5	EXTC_CVLAB_Color Camera Kit	This setup is required for Machine vision	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	120000.00	Shopping				
		projects to be under taken in TEQIP-2 scheme and is very helpful to carry out PG, consultancy and research work in the field of Machine Vision applications such as Video Surveillance, Object tracking etc.									Color Camera Kit	Color Camera Kit - Hi-Resolution Color GigE Camera (1024 x 768) with accessories & Extension cable set.	01	120000.00
TEQIP-II/MH/MH2G04/6	EXTC_CVLAB_Machine Vision SDK	Machine Vision Experiment Kit facilitates setting up Machine Vision Lab that brings Industrial Machine Vision Experience ready on desktop	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	80000.00	Direct Contract	Machine Vision SDK	Machine Vision SDK (Development) software - Sapera Essential –SDK software	01	80000.00
TEQIP-II/MH/MH2G04/7	EXTC_CVLAB_Lighting Kit	This setup is required for Machine vision projects to be under taken in TEQIP-2 scheme and is very helpful to carry out PG, consultancy and research work in the field of Machine Vision applications such as Video Surveillance, Object tracking etc.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	165000.00	Shopping	Lighting Kit	LED RING LIGHT, LED BACK LIGHT, POWER SUPPLY	01	165000.00
TEQIP-II/MH/MH2G04/8	EXTC_CVLAB_Optics Kit	This setup is required for Machine vision projects to be under taken in TEQIP-2 scheme and is very helpful to carry out PG, consultancy and research work in the field of Machine Vision applications such as	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	95000.00	Shopping				
		Video Surveillance, Object tracking etc.									Optics Kit	Lenses (5 Nos), Extension Tube set, Focal Length Extenders	01	95000.00

TEQIP-II/MH/MH2G04/10	EXTC_CVLAB_Thermal Camera	Thermal imaging is an upcoming research in the field of computer vision. This device is very useful in research work using thermal images.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping	Thermal Camera	160 x 120 Detector Thermal sensitivity: =0.2°C at 30°C (200 mK) Field of View: 23° x 17° IR-Fusion® Superior resolution to view more essential details Large widescreen full VGA color LCD display Temperature range: -20°C to +250°C (-4°F to +482°F) SmartView® analysis and reporting software (with free upgrades through life of product) Intuitive, three- button menu, simply navigate with the push of a thumb Adjustable focus Withstands dust and water, IP54 rating Withstands a test of 2 meters	01	300000.00
TEQIP-II/MH/MH2G04/13	EXTC_CVLAB_AC	To maintain ambiance in computer lab.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	160000.00	Shopping	Air Conditioner	AC Five Star 1.5 Tons	04	40000.00
TEQIP-II/MH/MH2G04/18	EXTC_EMBD_Real View MDK	IDE for development of embedded systems on ARM for 8051 and ARM	Goods	Equipment	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	440000.00	Direct Contract	Real View MDK for ARM	Real View MDK for ARM 25 (user lincense)	01	270000.00
											Real View MDK for 8051	Real View MDK for 8051 25 (user lincense)	01	170000.00
TEQIP-II/MH/MH2G04/19	EXTC_EMBD_ARM Boards	To develops the applications for Industrial control, Medical systems, Protocol converter, Communications etc To design the embedded application related to DSP and DIP Design and develops the fast processing application using Vector Floating Point coprocessor with core ARM processor	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	677750.00	Shopping	ARM7-LPC2378 board	ARM7-LPC2378 board with interfacing sets	15	22650.00
											ARM7- LPC 2478	ARM7- LPC 2478 with TFT	02	30000.00
											ARM9-LPC 3250	ARM9-LPC 3250 and cortex boards with JTAG debugged	02	44000.00
											ARM cortex as processor based target board	ARM cortex as processor based target board	02	95000.00
TEQIP-II/MH/MH2G04/20	EXTC_EMBD_8051 microcontroller kits	Practical and project purpose . Improved teaching and learning for PG students	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	100050.00	Shopping	8051 microcontroller kits	8051 microcontroller kits with different interfacing kits and programming software	15	6670.00
TEQIP-II/MH/MH2G04/21	EXTC_EMBD_Power supply	for experimental purpose	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	70000.00	Shopping	Power supply	Dual Track power supply 0- 30V, Min 5A	07	10000.00
TEQIP-II/MH/MH2G04/23	EXTC_EMBD_Wind River Workbench	Design real time embedded application with Wind River Linux and VxWorks platforms	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	950000.00	Direct Contract	Wind River Workbench	Wind River Workbench pack of three users	01	950000.00
TEQIP-II/MH/MH2G04/24	EXTC_DSPLAB_DSPLAB_Starter kits	Signal processing, Image/Video processing applications, Multichannel Wireless, Image/Video, Networking and other	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	415000.00	Shopping				
		computation expensive applications.									Digital Signal Processing Starter kits_1	Digital Signal Processing starter kits for processor TMS3216713 with code comparator studio	05	30000.00
											Digital Signal Processing Starter kits_2	Digital Signal Processing starter kits for processor TMS6416 code comparator studio	02	35000.00
											Digital Media Developer's Kit for Image/Video	Digital Media Developer's Kit for Image/Video for Embedded Multimedia applications	01	195000.00
TEQIP-II/MH/MH2G04/25	EXTC_DSPLAB_audio daughter card	It is used for DSP applications like Audio applications.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	25000.00	Shopping	4 Channel audio daughter card	4 Channel audio daughter card 25 K for TI DSP staeter kits	01	25000.00
TEQIP-II/MH/MH2G04/26	EXTC_DSPLAB_Image/Video daughter card	It is used for many Image/Video Processing applications.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	80000.00	Shopping	Image/Video daughter card	Image/Video daughter card M56446/13	01	80000.00
TEQIP-II/MH/MH2G04/28	EXTC_DSPLAB_Programmable System-on-Chip	Used to learn and develop Real time embedded applications.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	50000.00	Shopping	Programmable System-on-Chip	Cypress- psoc1,psoc3, psoc5	01	50000.00

TEQIP-II/MH/MH2G04/29	EXTC_DSPLAB_BWD tutor	Used to learn and develop Real time embedded applications.	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	70000.00	Direct Contract	Digital Signal Processing (BWD) tutor	Digital Signal Processing (BWD) tutor 10 user liscence: Bloom with DSP, in short BWD, is a training product that is designed to provide user with a fundamental grounding in theories and algorithms behind Digital Signal Processing. BWD is designed to lead the user from basic DSP concepts to target implementation	10	7000.00
												techniques in a logical and coherent fashion.		
TEQIP-II/MH/MH2G04/30	EXTC_DSPLAB_tutor	Used to learn interfacing with ARM7 processor (in LPC 2148) and develop Real time embedded applications.	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	210000.00	Direct Contract	ucos II tutor set	Micro-Controller Operating Systems Version 2. It is a priority-based pre-emptive real-time multitasking operating system kernel for microprocessors: ucos II tutor set 5	01	60000.00
											Microcontroller LPC 2148 tutor	Microcontroller LPC 2148 tutor kit. MCU: LPC2148 16/32 bit ARM7TDMI-S™ with 512K Bytes Program Flash, 42K Bytes RAM, USB 2.0, RTC, 10 bit ADC 2.44 uS, 2x UARTs, 2x I2C, SPI, 2x 32bit TIMERS, 6x PWM, 8x CCR, 1x DAC, WDT, 5V tolerant I/O, up to 60MHz operation	05	30000.00
TEQIP-II/MH/MH2G04/31	EXTC_AAMVLAB_ISE Design Suite	Latest integrated software solution supporting the combined methodologies of logic/connectivity, embedded, and DSP design for programming reconfigurable FPGAs suitable for PG and research students as per the objectives of TEQIP II.	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	693000.00	Direct Contract	Xilinx ISE System Edition 13.2	Xilinx ISE System Edition 13.2 (25 user license)	01	112000.00
											Xilinx ML505 Vertex5 Development Board	Xilinx ML505 Vertex5 Development Board General purpose FPGA and RocketIO™ GTP development board •with general purpose	01	147000.00
												evaluation and development platform •with on-board memory and industry standard connectivity interfaces		
											Xilinx ML506 Vertex5 Development Board	Xilinx ML506 Vertex5 Development Board DSP general purpose evaluation and development platform. Ability to create DSP based and high speed serial designs utilizing the Virtex-5 FPGA DSP48E slices and RocketIO™ GTP transceivers.	01	147000.00
											Xilinx ML507 Vertex5 Development Board	Xilinx ML507 Vertex5 Development Board General purpose FPGA, RocketIO™ GTX, and Embedded System development platform Application: Audio/Video Interface	01	137000.00
											Xilinx Spartan 3A video starter kit	Xilinx Spartan 3A video starter kit	01	150000.00
TEQIP-II/MH/MH2G04/32	EXTC_AAMVLAB_Spartan	Suitable for Implementation basics of reconfigurable FPGAs and other simple implementations for PG and research students as per the objectives of TEQIP II	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	408500.00	Shopping	Digilent Spartan 3E starter kit	Digilent Spartan 3E starter kit	05	15700.00
											Spartan 3A DSP 3400 A Development platform	Spartan 3A DSP 3400 A Development platform, FMC video daughter card, DVI Input, Single channel In and out composite, S-Video In and out, Two independent camera interface, CMOS image sensor camera, 742X480X 60 Hz RGB progressive scan, Micron MT9VO2Z CMOS colour	01	330000.00
												image sensor		
TEQIP-II/MH/MH2G04/33	CSE_EXTC_networking	Establishing Center of Excellence for focused applicable research in advance computer Network technology and Computer Vision	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	120000.00	Shopping	Networking Accessories	WLAN Access points Rucus or Equivalent Single radios with 802.11a/n (5 GHz) and 802.11b/g/n (2.4 GHz) concurrent operation, MIMO: (# Radio Transmit and # Radio Receive chains) Atleast 2X2 MIMO Antenna 20 MHz and 40 MHz channels,	06	20000.00

TEQIP-II/MH/MH2G04/41	IT_ossbow eKo Kit	Scaling up Postgraduate Education and demand driven Research & Development and Innovation	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	500000.00	Shopping	Crossbow eKo Kit	Crossbow eKo Kit for wireless sensor laboratory along with the sensors and other relevant accessories	01	500000.00
TEQIP-II/MH/MH2G04/42	IT_IBM	Scaling up Postgraduate Education and demand driven Research & Development and Innovation	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	15/06/2012	900000.00	Direct Contract	IBM SPSS Data Modeler	IBM SPSS Data Modeler (2 Users licence)	02	300000.00
											IBM rational rose UML software	IBM rational rose UML software	01	300000.00
TEQIP-II/MH/MH2G04/43	CSE&IT_QualNet Network	Scaling up Postgraduate Education and demand driven Research & Development and Innovation	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	15/06/2012	700000.00	Direct Contract	QualNet Network Simulator	QualNet Network Simulator (1 user licence)	02	350000.00
TEQIP-II/MH/MH2G04/44	IT_timedia Knowledge	Improvement in teaching, training and learning	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	310080.00	Direct Contract	Multimedia Knowledge Resources on Mobile Communication	Multimedia Knowledge Resources on Mobile Communication from Aditi Media Serivces (16 modules with 3 licences each)	48	6460.00
TEQIP-II/MH/MH2G04/45	PROD_ANSYS Multi-physics software	Will be used as FEA and CFD tool for PG and Ph.D. student	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	10/05/2012	1500000.00	Direct Contract	ANSYS Multi-physics software	ANSYS Multi-physics software V 14.0 or latest: ANSYS Academic research bundle, no node limit, full capability solver, includes all modules including CFD (CFX, FLUENT)	10	150000.00
TEQIP-II/MH/MH2G04/46	PROD_CAM S/W	Will be used on the CNC milling machine for CAD/CAM integration	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	300000.00	Direct Contract	CAM software - Software	CAM software - Software for CNC machine: DELCAM / VERICUT latest version	01	300000.00
TEQIP-II/MH/MH2G04/47	PROD_CATIA V 6.0	CAD use for all students and faculty. Improved teaching and learning for UG and PG students	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	300000.00	Direct Contract	CATIA V 6.0 software	CATIA V 6.0 software (UDK+UMC)	10	30000.00
TEQIP-II/MH/MH2G04/48	PROD_Digital life cycle management	Will be used as total PLM solutions for PG and Ph.D. students	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	800000.00	Direct Contract	Digital life cycle management	Digital life cycle management – Teamcenter/windchill PLM software with ORACLE, NX 8.0, NXCAM	20	40000.00
TEQIP-II/MH/MH2G04/51	PROD_Micro machining set up	Research facility. For research activity of PG students and Ph.D. scholars	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	2350000.00	NCB	Micro machining set up	CNC micromachining unit suitable for micro EDM milling and EDM drilling along with a compatible desktop computer, control unit and standard set of accessories.	01	2350000.00
TEQIP-II/MH/MH2G04/52	PROD_Software for QRE	For quality and reliability analysis studies Improved teaching and learning for UG and PG students	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract	Software for QRE APPL	Proficient4, InfinityQS ProFicient: Software for QRE applications: for on line and offline QC,	01	150000.00
											Weibull++	Reliability analysis and cost estimation Weibull++ by ReliaSoft Corporation	01	150000.00
											GoldSim	GoldSim Technology, Software for Reliablity Engg.	01	200000.00
TEQIP-II/MH/MH2G04/53	PROD_Software for reverse engineering	Will be installed on existing Coordinate Measuring Machine. Improved facility in work shop for research	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	300000.00	Direct Contract	Metro-soft Software for reverse engineering	Metro-soft software for the 3D CMM with reverse engineering module (BAF)	01	300000.00
TEQIP-II/MH/MH2G04/64	CWM_Global Positioning System	M-Tech Dissertation work, Sample watershed surveys.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	45000.00	Shopping	Global Positioning System	Global Positioning System GPS Hand held equipment, sunlight readable display 65K colour TFT, Battery operated, USB interface, Built in 3 axis tilt compensated compass,	01	45000.00
												barometric altimeter, 1 GB memory, capability to download satellite imagery and integrate them with the maps. High sensitivity and WAAS enabled GPS receiver, capacity to store key information about the location, capacity to accept data cards, Automatic routing complete with Dust proof and Waterproof case.		

TEQIP-II/MH/MH2G04/65	CWM_GIS software for 10 user lab license	M-Tech course work and Dissertation work. Analysis of watershed data.	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	450000.00	Direct Contract	GIS software for 10 user lab license	GIS software for 10 user lab license with the capacity of direct access to satellite imagery, supports true 3D viewing of loaded elevation and 3D vector data including draping of any loaded imagery crop, reproject and merge any combination of raster data and elevation data, import and export files, digitize new vector features, facility to track compatible GDS device, image rectification, contour generation, automatic triangulation and gridding of 3D points, comparing surfaces, Google map support, advanced measurement capabilities, advanced drawing capabilities, 3D path profiling	01	450000.00
TEQIP-II/MH/MH2G04/66	CWM_Digital BOD analyser	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	200000.00	Shopping	Digital BOD analyser	Digital BOD analyser,	01	200000.00
												BOD Measurement Package with Dissolved Oxygen (LDO) Probe, With Bottles, Designed for water quality experts, The durable portable meter and optional rugged probes designed to withstand portable and field use. Simple to use without manuals, BOD smart probe that stores all calibrations in the probe, Waterproof meter, meter stand, and easy to read display Meter package includes Portable Meter, BOD probe with 1.8 m cable, meter stand, Disposable BOD Bottles, Acrylic Stoppers (25) and BOD Bottle caps (1 packages of 6), 4 AA batteries, protective meter glove, power adapter, USB/DC power adapter for data transfer, quick-start guide, user manual, and documentation CD Data export: Download via USB connection to PC or flash memory device. Parameter: pH, mV, ISE, ORP, Dissolved Oxygen, Conductivity, TDS, Salinity, Temperature		
TEQIP-II/MH/MH2G04/67	CWM_Portable multi-parameter unit	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	270000.00	Shopping	Portable multi-parameter unit	Portable multi-parameter unit Microprocessor based portable equipment with the facility of measuring pH, mV, ISE, Conductivity, Dissolved	01	270000.00
												oxygen, temperature simultaneously using combined pH electrode /conductivity/oxyge n sensor with inbuilt temperature sensor and immersible stirrer in the field. High resolution, high precision menu driven operation. Backlit arrangement for poor light condition, datalogger memory for 2000 data sets and real time clock support GLP requirements. Supplied with rechargeable battery for up to 1000 hours of continuous measurements and appropriate line adopter. Mains power supply. Supplied with Dust shock and water proof case. Necessary cable and calibration and maintenance arrangement.		

TEQIP-II/MH/MH2G04/68	CWM_Instruments	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	48000.00	Shopping	Digital Titrator	Digital Titrator Portable Digital Titrator with interchangeable cartridges, Multiple titration methods available for Hardness, Alkalinity, Chloride with necessary reagents in a plastic case, manual, and five straight delivery tubes, Accuracy: ±1%.	01	48000.00
TEQIP-II/MH/MH2G04/69	CWM_Conductivity meter	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	84000.00	Shopping	Conductivity meter	Conductivity meter Bench top Conductivity	01	84000.00
												Meter: Conductivity Kit With Conductivity Cell For General Purpose Applications Conductivity Lab Kit, an all-in- one system with guided menu navigation designed to be used in a wide variety of applications AC and USB Operation, Backlight: Included Inputs: E.C. cell, Pt1000 Parameter: Conductivity, Salinity, Resistivity, Temperature		
TEQIP-II/MH/MH2G04/70	CWM_COD apparatus	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	107000.00	Shopping	COD apparatus	COD apparatus COD- Digital Reactor Block – 230V With 15 vial cell Pre- programmes for all for COD, Unicell, TNT tests for digestion. Two separately controlled heating blocks (for one of the models) for simultaneous digestion of different/identical temperatures and different identical time settings * Adjustable Temperature setting 35°C to 165°C in 1° C steps. * Adjustable Time settings [1 to 480minutes (8hours)] * Up to 3 user enter digestion/reaction storable Application Reagent Sets, Bulk COD LR and HR (300tests) Empty COD Vials with caps complete	01	107000.00
TEQIP-II/MH/MH2G04/71	CWM_Weather Station	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	155000.00	Shopping	Weather Station	Weather Station Transmission – Cabled Sensors – Wind Speed Wind Direction Temperature Humidity Rainfall Data – Every 2.5 Seconds Transmitter – Solar Power Battery Data Logger – To Log and Store Data	01	155000.00
TEQIP-II/MH/MH2G04/72	CWM_2	M-Tech course work and Dissertation work and Consultancy	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	70000.00	Shopping	Digital Infitrometer	Digital Infitrometer Diameter of Tube: 3.1 cm Volume of Water Required to Operate:135 ml Sintered Stainless Steel Disc: 4.5 cm diameter, 3 mm thick Length of Water Reservoir:21.2 cm Length of Suction Regulation Tube:10.2 cm Length of Mariotte Tube:28 cm Suction range: 0.5 to 7 cm of suction	01	70000.00
TEQIP-II/MH/MH2G04/73	CWM_3	M-Tech lab work, Dissertation work, field data collection, Improved Teaching & Learning, Overall Institutional Progress.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	245000.00	Shopping	Prismatic Compass	Prismatic Compass (100mm) made of brass or gun metal	10	3500.00
												Circles: Aluminum graduated every 30 minutes Reading- Agate stone bearing with help of prism glasses & reflecting mirror packed in fiber case with sighting vane and rigid stand and ball socket arrangement with aluminum stand Conforming to BIS : 1957-1961.		

											Vernier Theodolite	Theodolite 20 Sec Erect Image 24X Coated optic, Superior Quality Suitable for measuring Horizontal, Vertical Angles With Optical Plumet 2.5X Focusing Range 0.5m Erect Image 24/30X coated optic Shortest/longest measuring distance1.5m/300mt Graduated circle 360º Vernier reading 20" Objective aperture 40mm Complete in box with standard accessories & tripod stand of aluminium.	05	25000.00
											Dumpy level	Dumpy level •TELESCOPE Length : 300 mm Magnification : 20X Effective Aperture : 34 mm Field of View : 1 degree 5 '	05	15000.00
												Shortest Focussing Distance : 1.5 M Stadia Ratio : 1:100 •CIRCLE Diameter : 90 mm Graduation : 1 div = 1 degree Bubble Sensitivity : 1/2 minute •ACCESSORIES Aluminum Telescopic Tripod Plactic Box Tools kit: Screw Driver, Plub bob, Brush, Diaphragm extractor		
											Planimeter	Planimeter Planimeter with all accessories in box	04	2500.00
TEQIP-II/MH/MH2G04/74	CWM_4	Faculty research and consultancy	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	1940000.00	NCB	Triaxial Test Apparatus	Triaxial Test Apparatus Digital Load frame 50 kN capacity, Triaxial cell complete 38 – 100 mm dia., constant pressure system, triaxial electronic system (Digital indicator, load cell, Pore pressure transducer, Displacement transducer), Data acquisition system, compressor.	01	420000.00
											Compression Testing Machine	Compression Testing Machine (Digital) 3000 kN Capacity 3000 kN capacity , L.C. 0.1 kN up to 999 kN & 1 kN	01	620000.00
												from 1000 kN to 3000 kN, Maximum clearance between platens 400 mm, Maximum distance between side plates 400 mm, Platen size 320 mm square, Piston Dia. 272.2 mm, Piston stroke 50 mm, Specimen size 150 to 300 mm cube & 300 mm dia. × 300 mm high cylinder		
											Rebound Hammer	Rebound Hammer Hammer for compressive strength of 10 to 70 N/mm2, Impact energy 2.2 Nm, including all accessories such as cables, charger plug, carrying strap, grinding stone, manual and charts, carrying case etc.	01	365000.00
											Ultrasonic Concrete Tester	Ultrasonic Concrete Tester Display unit, 2 transducers (54 Khz), @ BNC cables 1.5 m, Couplant, calibration rod, 25 µs, USB charger with USB cable, 4 × AA (LR6) batteries, data carrier with software, documentation and carrysing case.	01	535000.00
TEQIP-II/MH/MH2G04/76	CWM_6	M-Tech lab work, Dissertation work.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	2070000.00	NCB	Ultrasonic flow meter	Ultrasonic flow meter	01	250000.00
											Pressure Monitoring & Control Products	Pressure Monitoring & Control Products	01	250000.00
											Computerized pump testing Rig	Computerized pump testing Rig	01	500000.00
											Bernoullis Theorem Apparatus	Bernoullis Theorem Apparatus (Closed loop set up)	01	75000.00

												Bernoulli's Apparatus consists essentially of a two dimensional rectangular section convergent divergent duct designed to fit between Constant Head Inlet Tank and Variable Head Outlet Tank.		
											Flow Through Orifice & Mouthpiece	Flow Through Orifice & Mouthpiece (Closed loop set up) 1. Set of Orifice : 10mm & 15mm (Acrylic) 2. Set of Mouth piece : Dia. 10mm, L/D 2.5 & 4 (Brass) 3. Sump Tank : Capacity 150 ltrs. Material M.S.Sheet with F.R.P. lining from inside for prevention of rusting. 4. Collecting Tank : Capacity 100 ltrs. Stand for mounting the collecting tank. 5. Measuring Tank : Capacity 40 ltrs Material M.S.Sheet with F.R.P. Piezometric Glass Tube for flow measurement. 6. Monoblock Pump : Capacity 0.5 HP, Single Phase, 230 V. with required bye-pass valve and suction piping. 7. Flexible Hose Pipe for connecting the basic unit to the Sump Tank. 8. Control valve for controlling the flow rate. 9. Stop clock. 10.Scale X-Y co-ordinate measuring arrangement. 11. A base frame made up of sturdy M.S. Angles.	01	100000.00
												12.Weights : 80 Kg (Approximately) 13.Dimension : 4 x .4 x 3 m.		
											Flow through Notches	Flow through Notches (Closed loop set up) M.S. Notch tank capacity of 40 Liters. A set of different sharp edged notches Rectangular notch 100mmPipe system with 2 G.I. Pipe lines of size 15mm and Triangular notch 60mm Hook gauge with provision for mounting. M.S. measuring and collecting tank of size 40Lts. Capacity Space needed: 3 x .3 x 3 Ms	01	125000.00
											Losses Due to Pipe Fittings, Sudden Enlargement & Contraction	Losses Due to Pipe Fittings, Sudden Enlargement & Contraction (Closed loop set up) Pipe lines: B class GI pipe of 15 & 20 mm with pressure tapping at 2 M distance, Pressure distribution manifold, flow control gate valves, & 1 M length manometer. Water recalculating pump: ½ HP mono block self priming pump Valves: Gun metal Gate valve ISI brand for flow control , Gunmetal imported ball valve for tank Drain , Gunmetal foot valve ISI brand. Tanks: Sump Tank Size: 2000 X 500 X 300 mm.	01	100000.00
												Collecting tank size: 500X500X600mm		

											Discharge Through Venturimeter & Orificemeter	Discharge Through Venturimeter & Orificemeter (Combined unit of venturimeter 40mm and orifice meter 25 mm) (Closed loop set up) Venturimeter of size 25mm made of gunmetal inlet dia fitted on a pipeline and control valve. Differential manometer 1 m length for the measurement of differential head, supplied with mercury Fiber Glass lined M.S measuring tank to measure the discharge water from the unit provided with a gauge glass scale arrangement and a drain valve Fiberglass lined M.S sump of to store sufficient water for independent circulation through the unit for experimentation and arranged with in the floor space of the main unit. Supply of pump set of 0.5 HP 25mm size to pump water from the sump to store the unit through proper piping system with a gate valve to control the rate of flow, and connected with a DP switch. Space needed : 4 x .3 x 3 M	01	120000.00
											Metacentric Height Apparatus	Metacentric Height Apparatus (Closed loop set up) Copper Sheet Vessel 350x350mm is provided with device for loading on	01	50000.00
												different points corresponding to the keel. The bridge is graduated in degree is provided for measuring the angle of inclination the unit is complete with clamping screw and two sets of brass slotted weights of 10gms. Sump tank for the above apparatus a 40 Liter capacity steel tank is provided with drain cock and is transparent window marked in cms. Dimension: 40 x 40 cm sump tank.		
											Darcy's Law Apparatus	Darcy's Law Apparatus (Closed loop set up), Perplex Column of size 69 x 100cm sump tank of 100 Liters capacity Approximate of M.S Discharge tank of 40 Liters capacity approximate of M.S Centrifugal Pump 25 x 25 mm with 0.5 HP motor Supporting Stand an Multi tube manometer.	01	100000.00
											Computerized water meter testing unit	Computerized water meter testing unit	01	350000.00
											Portable Water Current meter	Portable Water Current meter Measurement of velocity in flumes of size 30cm by 60 cm, propeller bar/cup and cone type, velocity range-0.05 to 4.0 m/s.	01	50000.00
TEQIP-II/MH/MH2G04/77	CWM-CAD	M-Tech lab work, Dissertation work.	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract	Water CAD Software	Water CAD Software Sewer CAD Storm CAD Latest version with Commercial liscence	01	500000.00

TEQIP-II/MH/MH2G04/78	INST_Multivariable Level Control Trainer	Practical for the students and Research and Development	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping	Multivariable Level Control Trainer	Multivariable Level Control Trainer Multiprocessor Trainer Technical Specifications Product: Multi variable level control trainer Product Code: 327A Type of Control: SCADA Control Unit: ADAN-4022T serial based dual loop PID controller, Analog input 4, analog output 2, digital input 2, digital output 2, with RS485 communications. Communication: USB port using RS485 – USB converter Level Transmitter: Type electronic, two wire, Range 0- 250 mm , output 4-20 mA (04 Nos) Rotameter : 16-160 LPH (04 Nos) Dosing pump : Positive displacement closing pump with adjustable stroke (02 Nos) VFD : VS mini inverter, programmable, input single phase 200VAC, 1.1A, output AC3 phase 0-230V, 0.3 kVA Process tank: Transparent, acrylic, with 0-100% graduated scale (04 Nos) Supply tank: SS304 Overall dimensions:	01	300000.00
												600Wx1000Dx1800H mm SCADA software package		
TEQIP-II/MH/MH2G04/79	INST_Multi-Process Control System	Practical for the students and Research and Development	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping	Multi-Process Control System	Multi-Process Control System Complex process in the industries. Specifications Control Unit: ADAM – 4022T. Serial based dual loop PID controller, analog input 4, analog output 2, digital input 2, digital output 2, with RS485 communications. Communications: USB port using RS485 USB converter. Differential pressure transmitter : Type capacitance, 2 wire, range0-200 ml, output 4-220 m/A sqrt (2 Nos) Level Transmitter: Type electronic. Two wire, range 0-250 mm, output 4-20 mA I/P Converter: Input 4-20mA, output 3-50 psig. Control Valve : Type: Pneumatic: Size: 1/4”, input: 3-15 psig, Air to close, characteristic: Linear Rotameter : 10-100 LPH(3 Nos) Pump : Fractional horse power, type submersible Process tank: Transparent, acrylic, with 0-100% graduated scale. Supply Tank: SS304 Flow measurement : Orifice meter (03 Nos) Air filter regulator : Range	01	300000.00
												0.2.5 kg/cm2 Pressure Gauge : Range 0.2.5kg/ cm2 (01 No), range 0		

TEQIP-II/MH/MH2G04/81	INST_Universal VLSI Development Boards	Practical for the students and Research and Development	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	250000.00	Shopping	Universal VLSI Development Boards (05 Numbers)	Universal VLSI Development Boards (05 Numbers) Universal VLSI economy Board. Technical Specifications, Universal platforms for A/XILINK FPGA CPLD devices, Modules available in PLCC84 , TQ144 AND VQ 100 packages, Support for 5V, 3.3V and 2.5 V devices (on board regulators),Power supply jack with reverse polarity protection., On board power switch., On board 4 MHz clock with on board clock divider (4 MHz to 244Hz),Manual clocking facility, External clock input facility.,All IO's accessible externally through 10 and 26 pin connections., Auto family defect facility with LED indication (Xilinx or a),Auto device detect facility (FPGA, CPLD OR SPROM with LED indication),On board a Byte blaster and Xilinx JTAG circuitry) ,On board configuration switch for FPGA's.,FPGA daughter board with sprom interface facility.	05	20000.00
											STK-2148-Lite	STK-2148-Lite Basic Trainer Kit for learning ARM7 architecture using LPC2148 • Speed: 12 MHz default, up to 60 MHz with on chip PLL,• Flash - 512 KB, SRAM - 40KB,• 128*64 Monochrome Graphics LCD,included on- board,• USB device interface with USB,connect LED,• Serial Ports:,o 2 UARTS: UART0 and UART1.,o UART0: 3 wire RS-232.,o UART1: 3 wire RS-232.• ADC: 2 Channels on Connector forexternal analog input. Facility to,give POT and LM35 input.,• Temperature sensor interface with on-board LM35,• DAC: One 10 bit DAC output, available as Test Point,• 8 LEDs for digital output and 8,Push Button Switches to give Digital Input • 16*2 Alphanumeric LCD,• 4*4 Matrix Keyboard• Buzzer and 2 Relays with LED indication. The relay contacts NC, NO and Common available on connectors.• Stepper Motor interface with onboard Stepper Motor	08	18750.00
TEQIP-II/MH/MH2G04/84	INST_SMART CLASS ROOM	For the PG and Research	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	115000.00	Shopping	LED Television set 46 INCH	LED Television set 46 INCH	01	100000.00
											PA system	PA system	01	15000.00
TEQIP-II/MH/MH2G04/86	INST_Evaluation board	For PG students, Research and Development	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	100000.00	Shopping	Evaluation board using P89V51RD2	Evaluation board using	05	20000.00
											along with interfacing cards	P89V51RD2 along with interfacing cards - ADC0809 along with temperature sensor LM35 - DAC0808 with all power supplies - Stepper motor interface card with stepper motor. - Digital I/O simulation board with 8 LEDs and 8 switches. - Text LCD module, 16 char X 2 rows LCD with 4x4 key matrix -4 x7segment LED with 4x4 key matrix - Interfacing card for SPI based RTC, I2C based ADC, DAC, RTC and EEPROM. Onboard POT and LM35 Temperature sensor to give analog input. - Traffic Light Simulation Card -DC Motor Interface card		

TEQIP-II/MH/MH2G04/87	INST_Gas- Liquid Chromatography	For PG students, Research and Development	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	600000.00	Shopping	Gas- Liquid Chromatography	Gas- Liquid Chromatography Provided by:- Shimadzu Column: - packed column type Detectors Flame ionization detector; FID-2010 Plus Injectors:- Split/split less injection unit; SPL-2010 Plus	01	600000.00
TEQIP-II/MH/MH2G04/88	INST_Distributed control system set up	For PG students, Research and Development	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	2000000.00	NCB	Distributed control system set up	Distributed control system set up which will comprise of device, control and supervisory levels and also system should also be integrated to Allen Bradley, Siemens' or ABB PLCs	01	2000000.00
												available in our LAB		
TEQIP-II/MH/MH2G04/89	INST_BIO MONITOR DATA ACQUISITION and SIGNAL ANALYSIS SYSTEM	For PG students, Research and Development	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	1500000.00	NCB	BIO MONITOR DATA ACQUISITION and SIGNAL ANALYSIS SYSTEM	BIO MONITOR DATA ACQUISITION and SIGNAL ANALYSIS SYSTEM System Components •1 Ethernet-ready data acquisition unit •1 universal interface module •1 software for Windows Vista with electronic manual •1 network interface card •1 Ethernet crossover cable 1 12 V power transformer with cord •Analog I/O ECG System, Skin Resistance Transducer Electrocardiogram Amplifier Multi-lead ECG Cable EEG, Pulse Oximeter Electroencephalogram Amplifier EEG Electrode Cap System Biopotential amplifiers to Touch proof inputs	01	1500000.00
TEQIP-II/MH/MH2G04/90	INST_DSO	For PG students, Research and Development	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	100000.00	Shopping	Digital Storage Oscilloscope	Digital Storage Oscilloscope 4 channel, 100 MHz, USB interface, 10 year limited lifetime warranty	02	50000.00
TEQIP-II/MH/MH2G04/95	INST_MSP 430 Trainer Kit:	For PG students	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping	Trainer Kit using microcontroller MSP	Trainer Kit using MSP 430	05	60000.00
											430	ULTRALITE-430, along with interfacing and stepper Motor control cards		
TEQIP-II/MH/MH2G04/100	COMP_EXTC_FUR	Establishment of New Laboratory for PG Programme in CSE	Goods	Furniture	Improvement in teaching, training and learning facilities	No	No	05/09/2012	243200.00	Shopping	Rolling chair Model RC 43	Rolling chair Model RC 43	50	1800.00
											Rolling chair Model RC 46	Rolling chair Model RC 46	46	1700.00
											Rolling chairs	CV Lab: Rolling chairs with adjustable height and hand rest	25	3000.00
TEQIP-II/MH/MH2G04/101	EXTC_CV_lab_FUR	Establishment of New Laboratory for PG Programme in EXTC	Goods	Furniture	Improvement in teaching, training and learning facilities	No	No	05/09/2012	300000.00	Shopping	Computer Tables & revolving chairs	Computer Vision Lab: Furniture for Computer Vision Lab. 25 seating arrangement Computer Tables (90 running feet), Shelf, Rack etc.	01	300000.00
TEQIP-II/MH/MH2G04/102	EXTC_Networking	Establishment of New Laboratory for PG Programme in EXTC	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	120000.00	Shopping	Electrical & Networking 1	Electrical & Networking CVLAB	01	40000.00
											Electrical & Networking 2	Electrical & Networking AMSVLSI LAB,	01	40000.00
											Electrical & Networking 3	Electrical & Networking Embedded Lab	01	40000.00
TEQIP-II/MH/MH2G04/103	EXTC_FUR_VLSILAB_embedded	Establishment of New Laboratory for PG Programme in EXTC	Goods	Furniture	Improvement in teaching, training and learning facilities	No	No	05/09/2012	290000.00	Shopping	Computer table 130 running feet	Advanced Analog & Mixed Signal Laboratory : Computer table 32 running feet @ 2200 per running feet Advanced Embedded System Laboratory: Computer table 23 running feet @ 2200 per running feet	01	290000.00
												DSP Laboratory : Computer table 75 running feet @ 2200 per running feet		
TEQIP-II/MH/MH2G04/104	IT_FUR	Establishment of New Laboratory for existing PG Programme in IT	Goods	Furniture	Improvement in teaching, training and learning facilities	No	No	05/09/2012	150000.00	Shopping	Chairs	Furniture for M.Tech IT Lab Chairs	20	3500.00

											Computer Tables	Computer Tables	20	4000.00
TEQIP-II/MH/MH2G04/105	INST_FUR	Establishment of New Laboratory for PG Programme in INSTR Dept.	Goods	Furniture	Improvement in teaching, training and learning facilities	No	No	05/09/2012	399995.00	Shopping	Patient Table	Patient Table	01	15000.00
											Cupboards	Cupboards	10	15000.00
											Chair	Chair for the lab	25	1000.00
											Office Table	Office Table	02	25000.00
											Executive Chair	Executive Chair	02	5000.00
											Sofa	Sofa	01	25000.00
											Experimental Tables	Experimental Tables	15	8333.00
TEQIP-II/MH/MH2G04/106	OTHER_FUR_lib	Establishment of improved infrastructure in Library Establishment of improved infrastructure in T&P Establishment of improved infrastructure in Examination Section	Goods	Furniture	Improvement in teaching, training and learning facilities	No	No	05/09/2012	670000.00	Shopping	LIBRARY BOOK RACK MAIN UNIT	LIBRARY KD BOOK RACKS (074Metallic Silver Grey) DOUBLE SIDED STEEL LIBRARY BOOK RACK MAIN UNIT Size 1850Hx900Wx600D	09	17300.00
											LIBRARY BOOK RACK ADD ON UNIT	LIBRARY KD BOOK RACKS (074Metallic Silver Grey) DOUBLE SIDED STEEL LIBRARY BOOK RACK ADD ON UNIT	28	16100.00
												Size1850Hx900Wx600D		
											STAND FOR LIBRARY KD BOOK RACKS	STAND FOR LIBRARY KD BOOK RACKS DOUBLE SIDED STEEL UNIT Size 125HX900WX600D	40	1587.50
TEQIP-II/MH/MH2G04/107	CWM_FUR	M-Tech lab work, Dissertation work. Improved Teaching & Learning, Overall Institutional Progress	Goods	Furniture	Improvement in teaching, training and learning facilities	No	No	05/09/2012	350000.00	Shopping	Cupboards	Cupboards 0.6m(w)x0.75m (depth)x0.6m(H)	10	10000.00
											Furniture for Environmental lab	Running Table for Environmental lab Laboratory furniture (10.6m length x depth 0.75m, 0.75m height)	01	250000.00
TEQIP-II/MH/MH2G04/108	CWM_CIVIL	To improve infrastructure facility in the department To improve learning and teaching facility to PG students.	Civil Works	Refurbishment works	Improvement in teaching, training and learning facilities	No	No	05/09/2012	215000.00	Shopping	Seminar Hall Refurbishment in Civil-WM seminar hall	Seminar Hall Refurbishment in Civil-WM seminar hall	01	40000.00
											Fluid Mechanics Lab Refurbishment in FM laboratory	Fluid Mechanics Lab Refurbishment in FM laboratory	01	100000.00
											Surveying Lab	Surveying Lab Partitions in surveying for equipments	01	75000.00
TEQIP-II/MH/MH2G04/109	EXTC_CIVIL	To provide good infrastructure to students To improve learning and teaching facility to PG students	Civil Works	Refurbishment works	Improvement in teaching, training and learning facilities	No	No	05/09/2012	1070000.00	Shopping	Comp Vision Lab	Comp Vision Lab a)False Ceiling b)Partitioning of lab c)Window work	01	375000.00
											Analog and Mixed Signal Lab	Analog and Mixed Signal Lab a)Door and door frame	01	320000.00
												b)HOD chamber windows c)Embedded system (Partition) d) DSP Lab (Partition)		
											Refurbishment of Flooring of proposed CV Lab	Refurbishment of Flooring of proposed CV Lab	01	375000.00
TEQIP-II/MH/MH2G04/110	PROD_CIVIL	To provide better infrastructure to students To improve learning and teaching facility to PG students.	Civil Works	Refurbishment works	Improvement in teaching, training and learning facilities	No	No	05/09/2012	710000.00	Shopping	False ceiling	(i)False ceiling of TOM and Metrological Lab (ii) False ceiling of CAM lab (iii) False ceiling of Heat Transfer lab (iv) false ceiling of wielding shop	01	260000.00
											Seminar room	Seminar room refurbishment	01	450000.00
TEQIP-II/MH/MH2G04/112	CIVIL_ differently able	Making Campus physically friendly and socially gender friendly, specially adequate to women and differently able teachers and students	Civil Works	Refurbishment works	Improvement in teaching, training and learning facilities	No	No	05/09/2012	676000.00	Shopping	Ramp for differently able teachers and students 1	Ramp for differently able teachers and students in Administrative building	01	150000.00
											Ramp for differently able teachers and students 2	Ramp for differently able teachers and students in Electronics Dept	01	125000.00
											Ramp for differently able teachers and students 3	Ramp for differently able teachers and students in Instrumentation Engg Dept	01	150000.00
											Ramp for differently able teachers and students 4	Ramp for differently able teachers and students in Library	01	126000.00
											Ramp for differently able teachers and students 5	Ramp for differently able teachers and students in	01	125000.00
												Civil Engg dept		

TEQIP-II/MH/MH2G04/113	IT_CIVIL	Establishment of New Laboratory for existing PG Programme in IT	Civil Works	Refurbishment works	Improvement in teaching, training and learning facilities	No	No	05/09/2012	200000.00	Shopping	Refurbishment work in the Laboratory, and electrification in the classrooms	Refurbishment work in the Laboratory, and electrification in the classrooms	01	200000.00
TEQIP-II/MH/MH2G04/114	INST_CIVIL	For attending seminar, workshops for PG StudentsTo enhance facilities to PG students and research students For doing R&D works for PG and PhD Students	Civil Works	Refurbishment works	Improvement in teaching, training and learning facilities	No	No	05/09/2012	650000.00	Shopping	Refurbishment of PG R&D facility	1. Refurbishment of Seminar Hall for PG Students 2. Refurbishment of PG Computer lab 3. Refurbishment of PG R&D Lab	01	500000.00
											Refurbishment of Biomedical & Signal Processing Research centre.	Refurbishment of Biomedical & Signal Processing Research centre.	01	150000.00
TEQIP-II/MH/MH2G04/115	OTHER_CIVIL	To provide infrastructure to office	Civil Works	Refurbishment works	Improvement in teaching, training and learning facilities	No	No	05/09/2012	200000.00	Shopping	Refurbishment of Library Seating arrangements	Refurbishment of Library Seating arrangements	01	200000.00
TEQIP-II/MH/MH2G04/117	Institute_Computers	Computing facility in PG labs, Library and Smart Classrooms etc.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	9564200.00	NCB	Desktop Computers	Intel i5 Processor, HDD 500GB, 4GB DDR3 RAM, WLAN Card,	162	43000.00
											Work Station	Processor Xeon QuadCore , RAM 4GB, 3D NVDIA Graphics card, 1TB HDD	30	74940.00
											Hi-performance PC	Processor i7, Memory: 16GB, 2TB HDD	02	175000.00
TEQIP-II/MH/MH2G04/118	Institute_Laptop	Computing facility in PG labs, Library and Smart Classrooms etc.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	600000.00	Shopping	LAPTOP1	i7, intel® HD 3000 graphics,4GB4 Dual Channel DDR3 SDRAM at 1333MHz, 256 flash hdd	03	100000.00
											LAPTOP 2	i5, 256 flash hdd, 4GB RAM	06	50000.00
TEQIP-II/MH/MH2G04/119	Institute_Printer	Computing facility in PG labs, Library and Smart Classrooms etc.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	587000.00	Shopping	Laser Printer	Multifunction (Print Copy Scan) Laser printer, manual duplex	06	12000.00
											Multifunction Laser Printer	Multifunction (Print Copy Scan FAX) Laser printer, Automatic duplex	05	25000.00
											Monochrome Laser Printer	Auto Duplex, 1200x1200	04	35000.00
											Digital Copier	Paper size A3, speed 60 - 120 sheets per minute	01	250000.00
TEQIP-II/MH/MH2G04/120	Instituite_LCD _ Projector	Computing facility in PG labs, Library and Smart Classrooms etc.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	850000.00	Shopping	LCD Projector 1	LCD Projector, 4000 Lumens	09	50000.00
											LCD Projector 2	0.8 - inch (1024 x 768) LCD with MLA (Aspect Ratio 4:3)	04	100000.00
TEQIP-II/MH/MH2G04/121	Institute_SW	To support Computing facility in PG labs	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	312000.00	Direct Contract	Windows 7 operating system	os for PCs with Visual studio bundle and MS office 2010	20	10000.00
											Windows 7	Windows 7 operating system	08	9000.00
											Anti-Virus	Anti-Virus licence for 2 years	04	10000.00
TEQIP-II/MH/MH2G04/123	Institute_UPS	For improved backup to the proposed Laboratory in the Department	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	1100000.00	NCB	UPS 5KVA	UPS 5KVA, 2 Hr Backup	05	160000.00
											UPS 10KVA	UPS 10KVA, 1 Hr Backup	02	150000.00
TEQIP-II/MH/MH2G04/124	Institute_Camera	Video data collection and outdoor data collection for PG research.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	135000.00	Shopping	HandyCam	HD Video Codec, MPEG4- AVC/H.264, Video Codec, MPEG2-PS Media Storage Type 220GB Hard Disk Drive HYBRIDMovie Recording on Memory Stick™ and SD/SDHC Memory Card Image Sensor 1/4 "Exmor R" CMOS Sensor Lens / Filter DiameterSony G Lens / 30mm Optical / Digital Zoom 12x / 160x Audio Format Dolby Digital 5.1ch, Dolby Digital 5.1Creator / Dolby Digital 2ch Stereo, Dolby DigitalStereo Creator Zoom MicYes Maximum Still Image Resolution (Photo Mode) 7.1 Mega Pixels (3072 x 2304, 4:3)	02	60000.00
											Digital Camera	10Mega Pixel	01	15000.00

TEQIP-II/MH/MH2G04/125	Institute_Scanner	For document scanning and digitization of documents.	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	210000.00	Shopping	Document Scanner	24" technical document scanner	01	150000.00
											Flat Bed Scanner	4800dpi	01	10000.00
											Document Scanner Scan resolution	Automatic document feeder capacity: Standard, 50 sheets	01	50000.00
TEQIP-II/MH/MH2G04/136	EXTC_CVLAB_Imaging_Kit_2	This software is required to programme the set up of imagining kit.	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	200000.00	Direct Contract	Aphelion Developer (GUI and SDK Imaging	Aphelion Developer ia an image processing and image analysis software.	01	200000.00
TEQIP-II/MH/MH2G04/137	EXTC_books	Improvement in Book facility for PG students	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract	EXTC-Books	Books for PG students of EXTC on subjects such as DSP, Computer Vision, DIP etc	01	500000.00
TEQIP-II/MH/MH2G04/138	EXTC_JNL	International and National Journals related to PG EXTC course are required PG dissertation work	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	600000.00	Direct Contract	EXTC-JNLS	International and National Journals related to PG EXTC course	01	600000.00
TEQIP-II/MH/MH2G04/139	CSE-books	Improvement in Book facility for PG students	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract	CSE-Books	Books for PG students of CSE on subjects such as Computer networking, Security, DSP, Computer Vision, DIP etc	01	500000.00
TEQIP-II/MH/MH2G04/140	CSE-JNLS	International and National Journals related to PG CSE dept course are required PG dissertation work	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	550000.00	Direct Contract	CSE-Journals	International and National Journals related to PG CSE course	01	550000.00
TEQIP-II/MH/MH2G04/141	IT-Books	Improvement in Book facility for PG students	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract	IT-Books	Books for PG students of IT Dept on various IT subjects.	01	500000.00
TEQIP-II/MH/MH2G04/142	IT-JNLS	International and National Journals related to PG IT course are required PG dissertation work	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	550000.00	Direct Contract	IT-JNLS	International and National Journals related to PG IT course	01	550000.00
TEQIP-II/MH/MH2G04/143	INSTR_books	Improvement in Book facility for PG students	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract	Insrt-Books	Books for PG students of Instrumentation Engg dept	01	500000.00
TEQIP-II/MH/MH2G04/144	Instru_JNLS	International and National Journals related to PG Instrumentation course are required PG	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	600000.00	Direct Contract	Instru_JNLS	International and National Journals related to PG Instrumentation course	01	600000.00
TEQIP-II/MH/MH2G04/145	Prod-books	Improvement in Book facility for PG students	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract	Prod-books	Books for PG students of production engineering dept on subjects various PG subjects	01	500000.00
TEQIP-II/MH/MH2G04/146	Prod-JNLS	International and National Journals related to PG Production engg course are required PG	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	600000.00	Direct Contract	Prod JNLS	International and National Journals related to PGcourses in Production engg dept	01	600000.00
TEQIP-II/MH/MH2G04/147	CWM-Books	Improvement in Book facility for PG students	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	500000.00	Direct Contract	CWM Books	Books for PG students of Civil Water Management Engg Dept.	01	500000.00
TEQIP-II/MH/MH2G04/148	CWM-JNLS	International and National Journals related to PG CWM course are required PG	Goods	Books & Learning Resources	Improvement in teaching, training and learning facilities	Yes	No	05/09/2012	600000.00	Direct Contract	CWM-JNLS	International and National Journals related to PG Civil Water Management course	01	600000.00
TEQIP-II/MH/MH2G04/149	EXTC_Cvlab_Hyperspectral camera	Hyperspectral cameras can discriminate	Goods	Equipment	Improvement in teaching, training and learning facilities	No	No	05/09/2012	280000.00	Shopping				

		between different objects that cannot be accurately distinguished using traditional RGB (red-green-blue) imaging methods. They can be very useful in a variety of research applications such as crop screening, food selection, skin cancer detection, target detection, etc.									Hyperspectral camera	Spectral Range 0.4–1.0 µm Digitization 12 bit Necessary accessories such as cables, power supply and frame grabber. An application Programming Interface in Visual C++ for application specific software development.	01	280000.00